

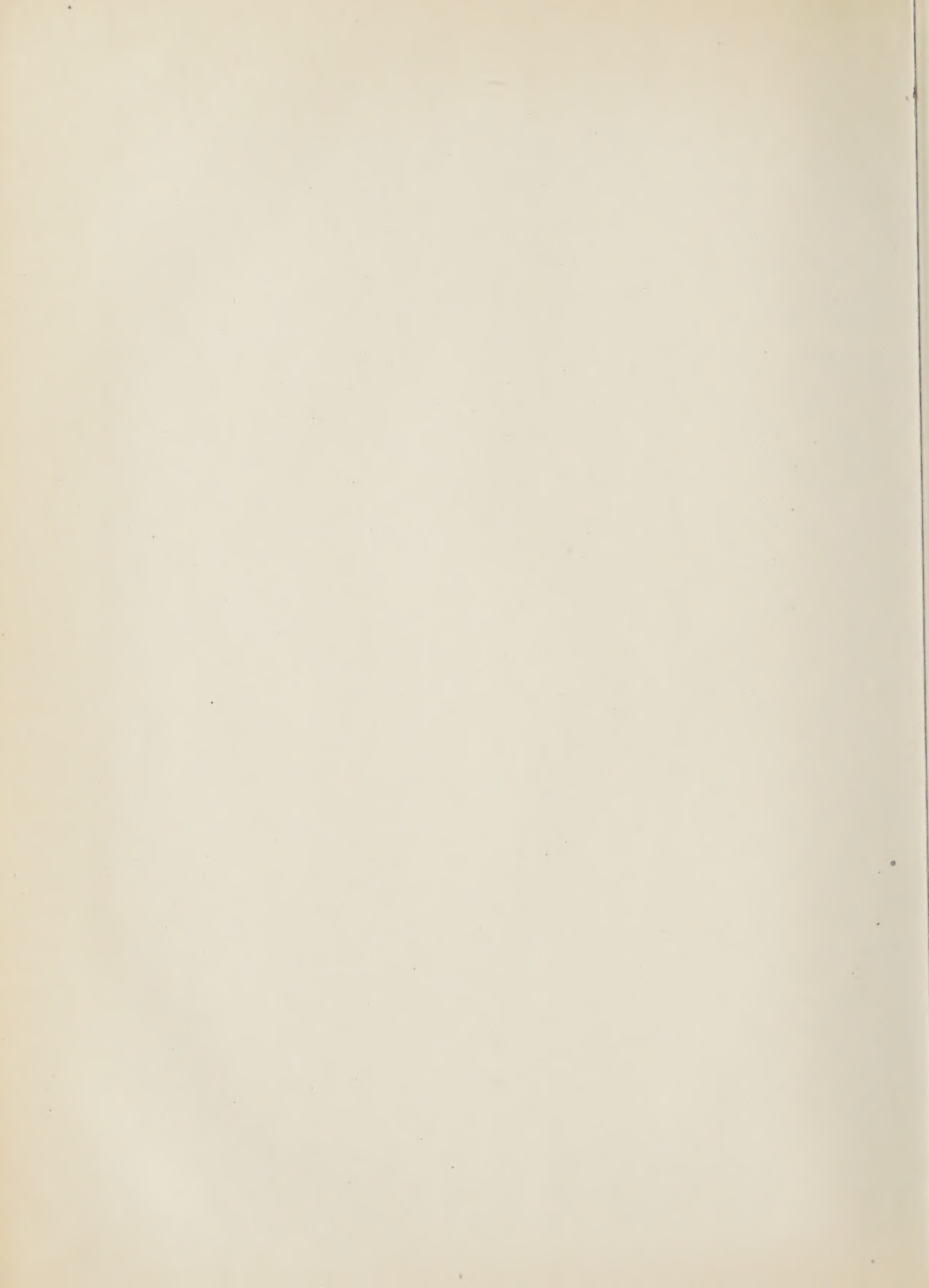
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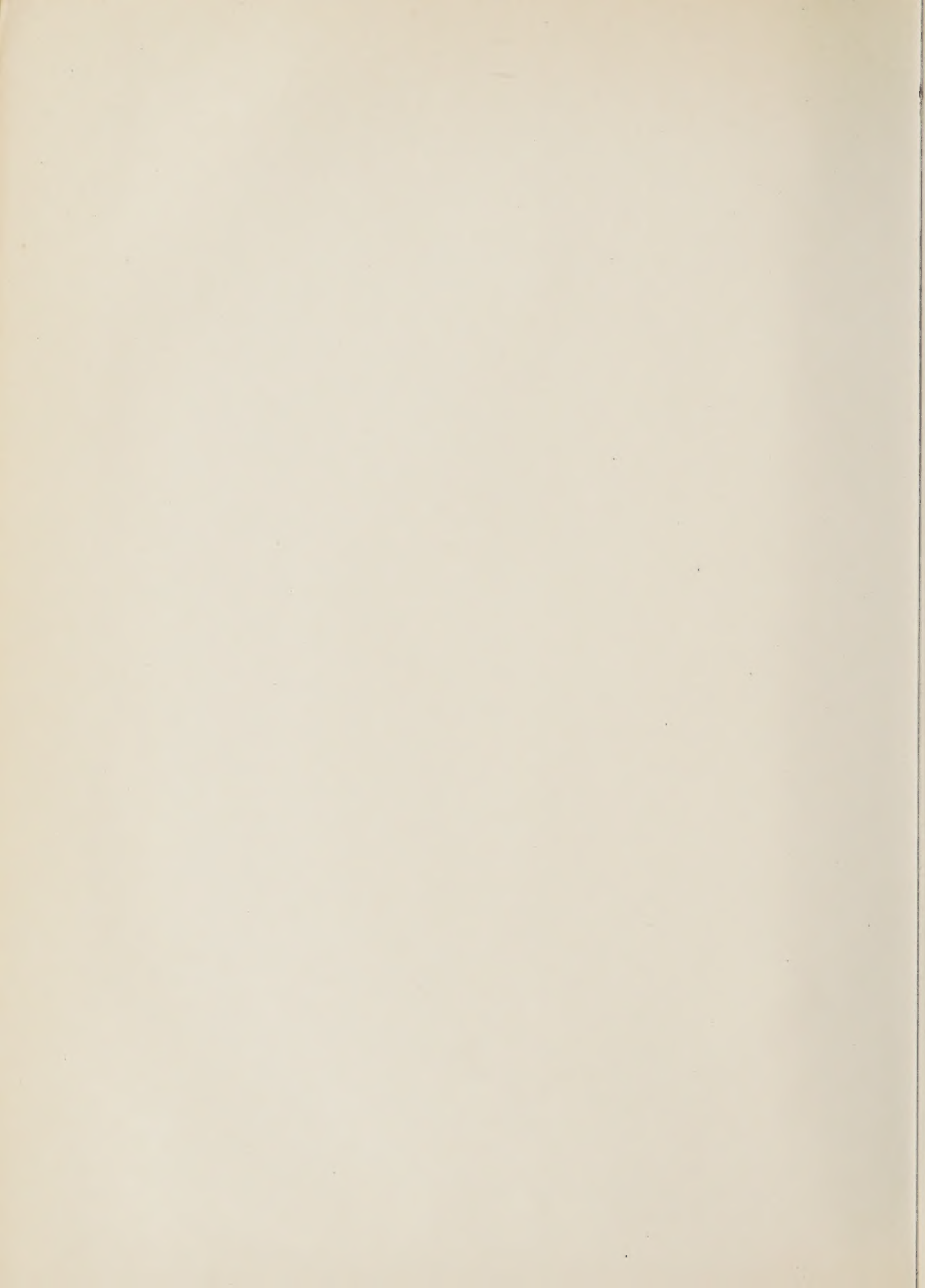
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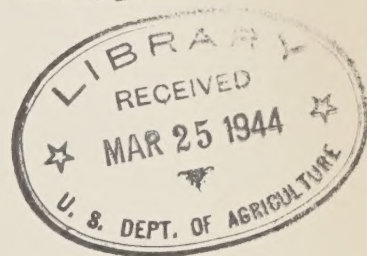




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AGRICULTURAL LIBRARY NOTES

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VOLUME 9

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1934

Edited by Claribel R. Barnett,
Librarian, United States Department of Agriculture

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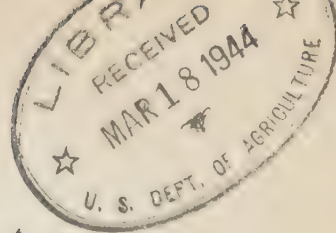
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- House beautiful. Boston. Combined with Home & field, Jan. 1934, to form House beautiful combined with Home & field.
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The article entitled "Lincoln's Attitude Toward Farm Problems" which was contained in Agricultural Library Notes, v. 6, no. 1, pages 29-33, February, 1931, has recently been revised by the author, Mr. E. E. Edwards, Associate Agricultural Economist, U. S. Department of Agriculture. Copies of the revised article in separate form can be obtained on application to Mr. Edwards.

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SOME CIVIL WORKS ADMINISTRATION EMERGENCY PROJECTS

In December, 1933, an allotment from CWA funds was made to the Department Library for the carrying on of certain specified projects, namely, (1) Rehabilitation of the books, a project of the main Library on which twelve CWA workers are employed, and (2) an Index to sources of consumption statistics, a project of the Bureau of Agricultural Economics Library on which four CWA workers are employed.

A number of Federal Research Projects are being carried on by various Government bureaus under CWA funds. Among these are the following projects for which funds were allotted to bureaus of the Department of Agriculture: Farm Housing Survey (Bureau of Home Economics); Cotton Statistics (Division of Cotton Marketing, Bureau of Agricultural Economics); Rural Tax Delinquencies, Farm Mortgages, Foreclosures and Land Values (Bureau of Agricultural Economics); Prices Farmers Pay for Commodities (Bureau of Agricultural Economics).

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LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING DECEMBER 1933

Connecticut

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Storrs, 1933.
Late cabbage. A. E. Wilkinson. (Conn. Agr. Col. Ext. Bul. 193)
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Indiana

- A dairyman's breeding program. E. T. Wallace. (Purdue Univ., Dept. Agr.
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Kentucky

- Color and its application to dress. I. M. Story. Revised by M. Purcell.
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Textile fibers and fabrics. I. M. Story. Revised by M. Purcell.
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The vegetable garden. J. S. Gardner. (Ky. Agr. Col. Ext. Circ. 243, rev.)
Lexington, 1933.
Meal Planning, I. F. Imlay. (Ky. Agr. Ext. Circ. 228 [rev.])
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Annual report for the year ended December 31, 1932. T. R. Bryant.
(Ky. Agr. Col. Ext. Circ. 264) Lexington, 1933.
Poultry parasites and sanitation. F. E. Hull. (Ky. Agr. Col. Ext. Circ. 265)
Lexington, 1933.
Home storage structures and equipment. H. Matson. (Ky. Agr. Col. Ext.
Circ. 266) Lexington, 1933.
Cherries for Kentucky. C. S. Waltman. (Ky. Agr. Col. Ext. Circ. 267)
Lexington, 1933.
The 4-H room improvement project, Unit I. A. Burnam and E. Lacy.
(Ky. Agr. Col. Ext. Circ. 268) Lexington, 1933.
The 4-H room improvement project, Unit II. A. Burnam and E. Lacy. (Ky. Agr.
Col. Ext. Circ. 269) Lexington, 1933.
4-H room improvement manual. E. Lacy. (Ky. Agr. Col. Ext. Circ. 270)
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Maine

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Canning and preserving. T. E. Wood. (Maine Agr. Col. Ext. Bul. 186, rev.)
Orono, 1933.
Houses for laying hens. H. L. Richardson. (Maine Agr. Col. Ext. Bul. 187, rev.)
Orono, 1933.

Massachusetts

- Feeding bullets and hens. By Department of Poultry Husbandry. (Mass. State
Col. Ext. Leaflet 6, rev.) Amherst, 1933.
Brooding and rearing chicks. By Department of Poultry Husbandry. (Mass. State
Col. Ext. Leaflet 63, rev.) Amherst, 1933.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING DECEMBER 1933
(Continued)

Massachusetts (continued)

- The good school lunch. M. E. Foley. (Mass. State Col. Agr. Ext. Leaflet 73) Amherst, 1933.
- Control calendar for vegetable pests. E. F. Guba and W. D. Whitcomb. (Mass. State Col. Ext. Leaflet 116, rev.) Amherst, 1933.
- Cultivating the farm forest. R. P. Holdsworth. (Mass. State Col. Ext. Leaflet 147) Amherst, 1933.

Minnesota

- The farmer's interest in exports. O. B. Jesness. (Minn. Univ. Agr. Ext. Spec. Bul. 164) University Farm, St. Paul, 1933.

Nebraska

- Inexpensive methods of gully control. I. D. Wood. (Nebr. Agr. Col. Ext. Circ. 741) Lincoln, 1933.

New York

- List of publications for general distribution. (N. Y. Agr. Col. (Cornell) Ext. Bul. 47, rev.) Ithaca, 1933.
- The New York state 1934 agricultural outlook. (N. Y. Agr. Col. (Cornell) Ext. Bul. 277) Ithaca, 1933.

Ohio

- The homemaker plans community meals. M. E. Gerlaugh. (Ohio Agr. Col. Ext. Bul. 138) Columbus, 1933.
- Your sewing machine: its care and adjustment. R. D. Barden and N. R. Bear. (Ohio Agr. Col. Ext. Bul. 140) Columbus, 1933.
- Meals from home grown foods. L. C. Ogle. (Ohio Agr. Col. Ext. Bul. 141) Columbus, 1933.
- Control of termites in buildings. T. H. Parks. (Ohio Agr. Col. Ext. Bul. 143) Columbus, 1933.
- The agricultural outlook for 1933-34. (Ohio Agr. Col. Ext., Timely Econ. Information for Ohio Farmers no. 71) Columbus, 1933.
- The new deal in the poultry business. R. E. Cray. (Ohio Agr. Col. Ext., Poultry Pointers no. 7) Columbus, 1933.

Oregon

- A manual for home sewing. A. Sager. (Oreg. Agr. Col. Ext. Bul. 468) Corvallis, 1933.

Texas

- Select quotations from Dr. Seaman A. Knapp; published on the 100th anniversary of the birth of America's great agricultural statesman, father of cooperative farm and home demonstration work, December 16, 1933. O. B. Martin. (Texas Agr. Col. Ext. Circ. C-100)

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING DECEMBER 1933
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Washington

- Cannibalism in chickens. D. Brazie and G. E. Bearse. (Wash. State Col. Ext., Poultry Pointers no. 12) Pullman, 1933.
Underfloor heat for poultry houses. M. W. Miller [and others] (Wash. State Col. Ext., Poultry Pointers no. 13) Pullman, 1933.
Washington chick rations. W. D. Buchanan [and others] (Wash. State Col. Ext., Poultry Pointers no. 14) Pullman, 1933.
Control of wheat smut in Washington. L. Hegnauer [and others] (Wash. State Col. Ext. Circ. 20) Pullman, 1933.

Wisconsin

- "Seedy cut" causes loss in bacon. L. J. Cole [and others] (Wis. Agr. Col. Ext. Circ. 262) Madison, 1933.
Canning meats. Department of Home Economics. (Wis. Agr. Col. Ext. Circ. 263) Madison, 1933.

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MUSEUM OF SCIENCE AND INDUSTRY LIBRARY

The following is taken from Illinois Libraries, October, 1933:

"An illustrated article on the library of the Museum of Science and Industry written by the librarian, Mary Postwick Day, appears in the Illinois Master Plumber for October, 1933. The museum, which was founded by Julius Rosenwald, is housed in the Fine Arts Building of the World's Columbian Exposition in Jackson Park.

The library is devoted to the history and development of the sciences and industries. The work of assembling material for the library began about five years ago. At the present time the collection consists of about 10,000 volumes, and some 25,000 pamphlets, photographs, prints and maps. It is a depository for all government publications of a scientific and industrial nature, and for the publications of many societies and concerns. The collection is used chiefly for research, but there is much of interest and value to the non-technical visitor as well. The library endeavors to be a service bureau for all those seeking practical, accurate, industrial and scientific literature."

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BIBLIOGRAPHIES

- Bureau of Railway Economics. Library. Store door delivery; a list of references chronologically arranged. Washington, D. C., 1933. 33 p. Mimeographed.
Culver, Dorothy Campbell, and Rohrs, Viola, comp. Inflation: a selected bibliography. Berkeley, Univ. of Calif., Bur. of public administration, 1933. 13 p. Mimeographed.
Science Museum. Library. References on the long period storage of fruit and vegetables. London, Eng., 1933. 4 p. Mimeographed.
U. S. Department of agriculture. Bureau of chemistry and soils. Partial list of references on maraschino cherries. 3 p. (Issued by Food research division)
Partial list of references on soy beans and soy bean products. 3 p. (Issued by Food research division)

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SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

of the U. S. Department of Agriculture
received during December, 1933, exclusive of bibliographies* and current
issues of serials.**

The farm part in the national plan. Address by Henry A. Wallace at the Fifteenth annual convention of the American farm bureau federation, Chicago, December 12, 1933. 15 p.

The farmer and social discipline. Address by Henry A. Wallace before a joint meeting of the American economic association, American statistical association, and the Farm economic association, at Philadelphia, Pa., December 28, 1933. 15 p.

The social advantages and disadvantages of the engineering-scientific approach to civilization. An address by Henry A. Wallace before the American association for the advancement of science, at Boston, Mass., December 29, 1933, at 8:30 p.m. 10 p.

Statesmanship and religion. Address by Henry A. Wallace before the Federal council of the Churches of Christ in America, Washington, D. C., December 7, 1933. 9 p.

The economics of the recovery program. An address by R. G. Tugwell before the Institute of arts and sciences at Columbia university, New York city, on November 16, 1933. 21 p.

The status of food distribution and the necessary steps to fit distribution to our present needs. By Mordecai Ezekiel. Speech to National association of marketing officials. December 18, 1933. 4 p.

Agricultural Adjustment Administration

Achieving equality. Remarks by George N. Peek before the American farm bureau federation, Chicago, December 12, 1933. 13 p.

A glance ahead. Remarks of Chester C. Davis before the American farm economic association, Philadelphia, December 27, 1933. 12 p.

Bureau of Agricultural Economics

Corn, oats, barley, rye, and flax outlook charts with explanations 1933-34. 21 p.

Dairy products outlook charts with explanations 1933-34. 28 p.

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** For a list of the principal series issued regularly, see v. 4, no. 1-2, p. 347.

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Hog outlook charts with explanations. 1933-34. Oct. 1933. 24 p.

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Statistical tables and maps showing progress in eradicating tuberculosis from livestock in the United States. Nov. 1, 1933. 14 p. (Issued by Tuberculosis eradication division.)

Uniform methods and rules for the establishment and maintenance of tuberculosis-free accredited herds of cattle and modified accredited areas. Unanimously adopted by the United States Livestock sanitary association, December 7, 1933, and approved by the Bureau of animal industry, U. S. Department of agriculture, Dec. 11, 1933. 7 p.

Bureau of Biological Survey

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Descriptive list of plants available at United States plant introduction garden, Coconut grove, Fla. Season 1933-34. 11 p. (Issued by Division of foreign plant introduction.)

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BY THE
UNITED STATES DEPARTMENT OF AGRICULTURE LIBRARY

WASHINGTON
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- INGRAHAM, M. A., and BAUMANN, C. A. The synthesis of carotene by bacteria. *Jour. Bact.* 27(1): 25-26. Jan. 1934. (Abstract)
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- IVANOFF, S. S. Stewart's wilt disease of corn, with emphasis on the life history of *Phytophthora Stewartii* in relation to pathogenesis. *Jour. Agr. Res.* [U.S.] 47(10): 749-770. Nov. 15, 1933.

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- WILLIAMS, F. T., and FRED, E. B. The influence of concentration of soluble calcium carbonate by microorganisms. Jour. Bact. 27(1): 58-59. Jan. 1934 (abstract)
- WILSON, P. W. Colorimetric method for determination of CO_2 in gas mixtures. Science n.s. 78(2029): 462-463. Nov. 17, 1933. (Scientific apparatus and scientific methods)

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LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING JANUARY 1934

Arkansas

- Alfalfa production. M. Nelson. (Arkansas. Agr. Col. Ext. Circ. 137, rev.)
Little Rock, 1933.
- Oats, a good feed crop. M. Nelson. (Ark. Agr. Col. Ext. Circ. 153, rev.)
Little Rock, 1933.
- Control of the boll weevil in Arkansas.. D. Isely. (Ark. Agr. Col. Ext.
Circ. 162, rev.) Little Rock, 1933.
- Handling and loading grapes. E. A. Hodson. Revised by J. H. Heckman.
(Ark. Agr. Col. Ext. Circ. 171, rev.) Little Rock, 1933.
- Marketing livestock through cooperative shipments. E. D. White. (Ark. Agr.
Col. Ext. Circ. 320) Little Rock, 1933.
- Homemade cotton mattresses. R. L. Wolfe. (Ark. Agr. Col. Ext. Circ. 322)
Little Rock, 1933.
- Marketing poultry and eggs. E. D. White. (Ark. Agr. Col. Ext. Circ. 323)
Little Rock, 1933.

California

- Control of injurious rodents in California. T. I. Storer. (Calif. Agr. Co..
Ext. Circ. 79) Berkeley, 1933.
- Ladino clover. B. A. Madson and J. E. Coke. (Calif. Agr. Col. Ext. Circ. 81)
Berkeley, 1933.
- The 1934 agricultural outlook for California. E. R. Wellman [and others]
(Calif. Agr. Col. Ext. Circ. 83) Berkeley, 1933.

Illinois

- Oats as a feed for swine. W. E. Carroll. (Ill. Agr. Expt. Sta. Circ. 414)
Urbana, 1933.
- Household care and cleaning. G. J. Ward and I. M. Hitchcock. (Ill. Agr. Expt.
Sta. Circ. 416) Urbana, 1934.

Indiana

- Twenty-second annual report of Purdue University, Department of agricultural
extension, Lafayette, Indiana, July 1, 1932 to June 30, 1933. J.H. Skinner.
(Purdue Univ., Dept. Agr. Ext.) Lafayette [1933]

Maine

- Annual report of Maine extension service, year ending June 30, 1933. A.L. Deering.
(Maine Agr. Col. Ext. Bul. 211) Orono, 1933.
- Step installation of a water system. C. M. Turner. (Maine Agr. Col. Ext. Circ.
113) Orono, 1933.

Maryland

- How to calculate field areas. R. J. Carpenter and C. E. Wise, jr. (Md. Univ.
Agr. Ext. Circ. 102) College Park, 1933.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING JANUARY 1934
(Continued)

Massachusetts

Feed hoppers. (Mass. State Col. Ext. Leaflet 76, rev.) Amherst, 1933.
Bees for the beginner in Massachusetts. C. R. Kellogg. (Mass. State Col. Ext. Leaflet 148) Amherst, 1933.
Annuals as garden flowers. C. L. Thayer and A. M. Davis. (Mass. State Col. Ext. Leaflet 149) Amherst, 1933.
Massachusetts pastures. R. W. Donaldson. (Mass. State Col. Ext. Leaflet 150) Amherst, 1933.
Mushroom culture. G. B. Snyder. (Mass. State Col. Ext. Leaflet 151) Amherst, 1933.

Minnesota

The agricultural outlook for Minnesota for 1934. (Minn. Univ. Agr. Ext. pamphlet 34) University Farm, St. Paul, 1934.
Oats in Minnesota. H. K. Hayes [and others] (Minn. Univ. Agr. Ext. Spec. Bul. 185) University Farm, St. Paul, 1933.

Nevada

A four-fold program for Nevada 4-H clubs: second year requirements.
T. E. Budzman. (Nev. Agr. Col. Ext. Bul. 71) Reno, 1933.
4-H club member's record book: livestock projects. (Nev. Agr. Col. Ext. Bul. 76) Reno [1933?]
4-H club member's record book: crop growing projects. (Nev. Agr. Col. Ext. Bul. 77) Reno [1933?]
4-H club member's record book: food selection and preparation and food preservation projects. (Nev. Agr. Col. Ext. Bul. 78) Reno [1933?]
1933 Nevada agricultural outlook. (Nev. Agr. Col. Ext. Circ. 3) Reno, 1933.

New Jersey

Testing cows for milk and fat production. E. J. Perry. (N. J. Agr. Col. Ext. Bul. 111) New Brunswick, 1933.

New Mexico

New Mexico agricultural outlook, 1934. L. H. Hauter. (N. Mex. Agr. Col. Ext. Circ. 127) State College, 1933.

New York

Growing wood as a crop on New York farms. Part 1. Trees and products. J. A. Cope. (N. Y. Agr. Col. (Cornell) Ext. Bul. 270) Ithaca, 1933.
We can kill a lamb. R. B. Hinman. (N. Y. Agr. Col. (Cornell) Ext. Bul. 271) Ithaca, 1933.
We can kill a hog. R. B. Hinman and C. D. Schutt. (N. Y. Agr. Col. (Cornell) Ext. Bul. 272) Ithaca, 1933.
We can kill a beef or veal. R. B. Hinman. (N. Y. Agr. Col. (Cornell) Ext. Bul. 273) Ithaca, 1933.
Results of cost accounts on New York farms. J. F. Harriott. (N. Y. Agr. Col. (Cornell) Ext. Bul. 274) Ithaca, 1933.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING JANUARY 1934
(Continued)

New York (Continued)

New York state college of home economics at Cornell university: seventh annual report, 1932. [1932]

Extension work, p. 53-67.

New York state college of home economics at Cornell university: eighth annual report, 1933. [1933]

Extension work, p. 25-33.

Ohio

Summer management of the poultry flocks. R. E. Cray. (Ohio Agr. Col. Ext., Poultry pointers no. 11) Columbus, 1933.

South Carolina

Brooding chicks. P. H. Gooding. (Clemson Agr. Col., S. C., Ext. Circ. 150) Clemson College, 1933.

Feeding laying hens. P. H. Gooding. (Clemson Agr. Col., S. C., Ext. Circ. 131) Clemson College, 1933.

Utah

Cleaners, waxes, polishes, crack fillers, etc. E. S. Barrows. (Utah Agr. Col. Ext. New Ser. Circ. 35, rev.) Logan, 1933.

The trench silo. E. J. Maynard. (Utah Agr. Col. Ext. New Ser. Circ. 50, rev.) Logan, 1933.

Carrots. E. Miller. (Utah Agr. Col. Ext. New Ser. Circ. 59) Logan, 1933.

The cabbage family. E. Miller. (Utah Agr. Col. Ext. New Ser. Circ. 60) Logan, 1933.

Spinach and other greens. E. Miller. (Utah Agr. Col. Ext. Ser. Circ. 61) Logan, 1933.

Vermont

Suggestions for making high quality maple syrup. J. G. Weir. (Vt. Agr. Col. Ext. Circ. 73) Burlington, 1933.

Emergency farm and home practices. (Vt. Agr. Col. Ext. Circ. 75) Burlington, 1933.

Refinishing furniture. C. P. Brooks. (Vt. Agr. Col. Ext. Circ. 76) Burlington, 1933.

The well-dressed 4-H club girl. M. E. Leighton. (Vt. Agr. Col. Ext. Circ. 77) Burlington, 1933.

Virginia

Boys' and girls' 4-H club series: poultry production. A. F. Treagle and Mrs. A. F. Treagle. Revised by A. L. Dean. (Va. Agr. Col. Ext. Bul. 51, rev.) Blacksburg, 1933.

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SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

received during January, 1934, exclusive of bibliographies* and current issues of serials.**

Remarks by Henry A. Wallace in a series of broadcasts on conservation. National farm and home hour, NBC, Jan. 12, 1934. 6 p.

Remarks by Henry A. Wallace on the campaign to adjust cotton acreage. Broadcast Jan. 23, 1934. 7 p.

Statement by Henry A. Wallace to Senate committee on agriculture and forestry, Jan. 18, 1934.

Renewed frontiers. By Rexford G. Tugwell. An article published in the New York Times, Sunday, Jan. 14, 1934. 11 p.

Agricultural Adjustment Administration

Building on experience. Address of Chester C. Davis before the annual banquet of the Illinois Agricultural association in Danville, Illinois, Thursday evening, Jan. 25, 1934. 14 p.

Changing conditions in the grain world. Address by Frank A. Theis before the annual meeting of the Kansas Agricultural convention, Topeka, Kansas, Jan. 11, 1934. 18 p. (Issued by Grain processing and marketing section)

Order out of chaos in agriculture. Address by George E. Farrell at annual meeting of Iowa farm bureau federation, Des Moines, Iowa., Jan. 25, 1934. 11 p. (Issued by Wheat section)

A program for tobacco growers. Address by J. B. Hutson before Kentucky Farm bureau federation at Louisville, Ky., Jan. 10, 1934. 12 p. (Issued by Tobacco section)

Bureau of Agricultural Economics

A brief outline of the more important changes proposed in the Federal grain standards. (Issued from General field headquarters, Grain division... Chicago, Ill.) 10 p.

See U. S. Dept. of Agriculture Miscellaneous publication no. 173 for complete discussion and detailed proposals.

Grade and staple length of American Upland cotton consumed in the United States, 1930-31 and 1931-32. A preliminary report. By W. B. Lanham and O. T. Weaver. Dec. 1933. 26 p. (Issued by Division of cotton marketing)

Lincoln's attitude toward farm problems. By Everett E. Edwards. Dec. 15, 1933. 4 p. (Issued by Division of statistical and historical research)

This statement is a revision of an article with the same title in Agricultural Library Notes, Feb. 1931. Originally presented by the author as a radio talk, Feb. 12, 1931.

*Bibliographies included in general list of bibliographies on page 47.

**For a list of the principal series issued regularly, see v. 4, no.1-2,p.347.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Agricultural Economics
(continued)

Sheep, lambs, and wool outlook charts with explanations, 1933-34. Oct. 1933.
28 p.

Standard grades for Burley tobacco (U.S. type 31). Prepared under authority
of the Tobacco stocks and standards act (Public no. 661, 70th Cong.).
Dec. 1933. 16 p.

Use of cotton bags and other containers in flour mills of the United States,
1932. A preliminary report. By John T. Wigington and R. J. Cheatham.
Dec. 1933. (Issued by Division of cotton marketing)

Why does foreign wool bring better prices than domestic? By Warner M. Buck.
Dec. 1, 1933. 9 p. (Issued by Division of livestock, meats and wool)

Bureau of Biological Survey

Bird refuges and game preserves administered by the Bureau of Biological
Survey, Rev. Leaflet Bi-1226a. 6 p. Jan. 20, 1934.

Our federal predator control work. An address by Stanley P. Young at the
Twentieth American game conference. New York City, Jan. 2, 1934. 3 p.
(Issued by Division of predatory-animal and rodent control)

Bureau of Chemistry and Soils

Fuel gas from "farm wastes". By P. B. Jacobs. 3 p.

Patent list, coffee extract and soluble coffee. Comp. by V. A. Pease.
Dec. 9, 1933. 3 p. (Issued by Food research division).

Research the most important factor in the conservation and profitable utiliza-
tion of farm products, by-products, surpluses, and of our soil resources.
Rev. Dec. 1, 1933. 139 p.

Results of ten years' fertilizer experiments with pecans on Blanton fine
sand and Bladen fine sandy loam. By Earl D. Fowler, J. J. Skinner, and
R. W. Ruprecht. 1933. 11 p. (Issued in cooperation with Florida agri-
cultural experiment station)

Extension Service

Fitting the extension program to the needs of the adjustment program.
By C. W. Warburton. Dec. 1933. 6 p. Extension service circular 195.
(Issued by Office of cooperative extension work)

Presented before the Extension section, 49th annual convention
Association of land-grant colleges and universities, Chicago, Ill.,
Nov. 14, 1933.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
(Continued)

Forest Service

Forest tree planting on land removed from cotton production. Prepared by W. K. Williams in cooperation with the Replacement crops section, Production division, Agricultural adjustment administration. Dec. 19, 1933. 3 p.

Bureau of Plant Industry

Banana growing in Florida. By. T. Ralph Robinson. Jan. 15, 1934. 3 p.
(Issued by Division of fruit and vegetable crops and diseases)

Carnation rust. By Freeman Weiss. Jan. 1934. 2 p. (Issued by Division of fruit and vegetable crops and diseases)

The diseases of box (*Buxus sempervirens*). By Freeman Weiss. Jan. 1934. 5 p. (Issued by Division of fruit and vegetable crops and diseases)
Section called "Cultural requirements of box" contributed by F. L. Mulford.

Diseases of rhododendrons in ornamental plantings. By Freeman Weiss. Jan. 1934. 4 p. (Issued by Division of fruit and vegetable crops and diseases)
Section on "Cultural requirements" contributed by F. L. Mulford.

Pasture plants and pasture mixtures suggested for seeding on the acreage taken out of cotton, tobacco, wheat and corn for erosion prevention and soil improvement. Prepared by the Division of forage crops and diseases, Bureau of plant industry, in consultation with the Replacement crops section, Production division, Agricultural adjustment administration. Oct. 31, 1933. 5 p.

Report of progress on experiments to control pecan rosetts. J. B. Denaree, Earl D. Fowler, and H. L. Crane. 12 p.

Suggested soil-improving and erosion-preventing crops for land taken out of wheat, corn and cotton, west of the 97th meridian. Prepared by the Division of forage crops and diseases, Bureau of plant industry, in consultation with the Replacement crops section, Production division, Agricultural adjustment administration. Dec. 14, 1933. 6 p.

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WHO'S WHO IN LIBRARY WORK IN AGRICULTURE AND THE RELATED SCIENCES

This list includes (1) the libraries of the land-grant colleges and universities and the state experiment stations, (2) the libraries of the U. S. Department of Agriculture, and (3) miscellaneous libraries.

Additions to these lists, and corrections, will be gratefully received.

1. Land-grant Colleges and Universities and Experiment Stations

ALABAMA

Alabama Polytechnic Institute, Auburn. Miss Mary E. Martin, Librarian.

*Alabama Agricultural Experiment Station, Auburn.

State Normal and Mechanical Institute for Negroes, Norma. Miss Lucile A. Love, Librarian.

Agricultural School and Agricultural Experiment Station, Tuskegee
Normal and Industrial Institute, Tuskegee Institute. Mr. W. B. Williams, Librarian.

ARIZONA

University of Arizona, Tucson. Mr. R. H. Gjelsness, Librarian.

ARKANSAS

University of Arkansas, Fayetteville. Miss Julia Vaulx, Librarian.

College of Agriculture, University of Arkansas, Fayetteville.

Miss Margaret Gallaway, Librarian.

CALIFORNIA

University of California, Berkeley. Mr. Harold L. Leupp, Librarian.

College of Agriculture, University Farm, Davis. Miss Nelle U. Branch, Librarian.

Citrus Experiment Station, Riverside. Miss Margaret Buvens, Librarian.

Giannini Foundation of Agricultural Economics, University of California, Berkeley. Miss Orpha Cummings, Librarian.

Life Sciences, Life Science Building, University of California, Berkeley.
Mrs. M. J. Abbott, Librarian.

COLORADO

State College of Agriculture, Fort Collins. Miss Charlotte A. Baker, Librarian.

CONNECTICUT

Connecticut State College, Storrs. Miss Edwina M. Whitney, Librarian.

Connecticut State Agricultural Experiment Station, New Haven.

Miss L. M. Brautlecht, Librarian.

DELAWARE

University of Delaware, Newark. Mr. William D. Lewis, Librarian.

Agricultural Experiment Station, University of Delaware, Newark.

Miss Freda E. Ritz, Librarian.

State College for Colored Students, Dover. Mrs. Nell-C. Jefferson, Librarian.

FLORIDA

University of Florida, Gainesville. Miss Cora Miltimore, Librarian.
Agricultural Experiment Station, University of Florida, Gainesville.
Mrs. Ida K. Cresap, Librarian.
Florida Agricultural and Mechanical College for Negroes, Tallahassee.
Miss Jennie E. Baker, Librarian.

GEORGIA

College of Agriculture, University of Georgia, Athens. Miss Nelle M. Reese, Librarian.
Georgia Experiment Station, Experiment. Miss Sarah L. Kilpatrick, Librarian.
Georgia Coastal Plain Experiment Station, Tifton. Miss Jessie Lee Reynolds, Librarian.

IDAHO

University of Idaho, Moscow. Miss Mary B. Sweet, Librarian.

ILLINOIS

University of Illinois, Urbana. Mr. P. L. Windsor, Librarian.
College of Agriculture, University of Illinois, Urbana. Miss Mary G. Burwash, Librarian.

INDIANA

Purdue University, Lafayette. Mr. Wm. M. Hepburn, Librarian.
Agricultural Experiment Station, Purdue University, Lafayette.
Miss Ivor E. Sempill, Librarian.

IOWA

Iowa State College of Agriculture and Mechanic Arts, Ames.
Mr. Charles H. Brown, Librarian.

KANSAS

Kansas State College of Agriculture and Applied Science, Manhattan.
Mr. Arthur B. Smith, Librarian.

KENTUCKY

University of Kentucky, Lexington. Miss Margaret I. King, Librarian.
Agricultural Experiment Station, University of Kentucky, Lexington.
Miss Grace L. Snodgrass, Librarian.

LOUISIANA

Hill Memorial Library, Louisiana State University and Agricultural and Mechanical College, University Station, Baton Rouge. Mr. James H. McMillen, Librarian.
Southern University, Scotlandville. Miss Camille S. Shade, Librarian.
Agricultural Experiment Station, Baton Rouge. Mr. James K. McHugh, Librarian.

MAINE

University of Maine, Orono. Mr. Louis T. Ibbotson, Librarian.

WHO'S WHO IN LIBRARY WORK IN AGRICULTURE AND THE RELATED SCIENCES
(continued)

MARYLAND

University of Maryland, College Park. Miss Grace L. Barnes, Librarian.

MASSACHUSETTS

Massachusetts State College, Amherst. Mr. Basil B. Wood, Librarian.

MICHIGAN

Michigan State College, East Lansing. Mr. J. E. Towne, Librarian.

MINNESOTA

University of Minnesota, Minneapolis. Mr. Frank K. Walter, Librarian.
Department of Agriculture, University of Minnesota, University Farm,
St. Paul. Miss Harriet W. Sewall, Librarian.

MISSISSIPPI

Mississippi State College, State College. Miss Nannie H. Rice, Librarian.
Alcorn Agricultural and Mechanical College, Alcorn. Mrs. Ruby S. Lyells,
Librarian.
*Mississippi Experiment Station, State College.

MISSOURI

University of Missouri, Columbia. Mr. Henry O. Severance, Librarian.
College of Agriculture, University of Missouri, Columbia. Miss Jane
Frodsham, Librarian.
Missouri State Fruit Farm and Experiment Station, Mountain Grove.
(No librarian)

MONTANA

Montana State College of Agriculture and Mechanic Arts, Bozeman.
Mrs. Lois B. Payson, Librarian.

NEBRASKA

University of Nebraska, Lincoln. Mr. Gilbert H. Doane, Librarian.
College of Agriculture, University of Nebraska, Lincoln. Miss Edna C.
Noble, Librarian.

NEVADA

University of Nevada, Reno. Miss Thea C. Thompson, Librarian.
College of Agriculture and Agricultural Experiment Station, Reno.
Miss Grace Costell, Librarian.

NEW HAMPSHIRE

University of New Hampshire, Durham. Mr. M. A. Miller, Librarian.

NEW JERSEY

Rutgers University, New Brunswick. Mr. George A. Osborn, Librarian.
New Jersey Agricultural Experiment Station, New Brunswick.
Miss Elizabeth G. Skillman, Librarian.

NEW MEXICO

New Mexico College of Agriculture and Mechanic Arts, State College.
Miss Lottie S. Peters, Librarian.

WHO'S WHO IN LIBRARY WORK IN AGRICULTURE AND THE RELATED SCIENCES
(continued)

NEW YORK

Cornell University, Ithaca, N. Y. Mr. Otto Kinkeldey, Librarian.
New York State College of Agriculture, Ithaca, Mr. Willard W. Ellis,
Librarian.
New York State Agricultural Experiment Station, Geneva. Miss Marjorie E.
Rogers, Librarian.

NORTH CAROLINA

University of North Carolina, Chapel Hill. Mr. Louis R. Wilson, Librarian.
North Carolina State College of Agriculture and Engineering, State
College Station, Raleigh. Mr. H. T. Lefler, Librarian.
The Negro Agricultural and Technical College, Greensboro. Miss Florence
L. Byrd, Librarian.

NORTH DAKOTA

North Dakota Agricultural College and Experiment Station, State College
Station, Fargo. Mrs. Ethel McVesty, Librarian.

OHIO

Ohio State University, Columbus. Mr. Earl N. Manchester, Librarian.
Ohio Agricultural Experiment Station, Wooster. Miss Emma J. Collins,
Librarian.

OKLAHOMA

Oklahoma Agricultural and Mechanical College, Stillwater. (Position of
Librarian vacant.)
Oklahoma Agricultural Experiment Station, Stillwater. Miss Velma
Harned, Librarian.

OREGON

Oregon State Agricultural College, Corvallis. Miss Lucy M. Lewis,
Librarian.

PENNSYLVANIA

Pennsylvania State College, State College. Mr. Willard P. Lewis,
Librarian.
Agricultural Library, Pennsylvania State College, State College.
Miss K. M. Stanford, Librarian.

RHODE ISLAND

Rhode Island State College, Kingston. Mrs. M. R. Van Ingen, Librarian.

SOUTH CAROLINA

Clemson Agricultural College, Clemson College. Miss Cornelia A. Graham,
Librarian.
Colored Normal, Industrial, Agricultural and Mechanical College of
South Carolina, Orangeburg. Miss Athelma R. Nix, Librarian.

SOUTH DAKOTA

South Dakota State College of Agriculture and Mechanical Arts,
Brookings. Prof. Wm. H. Powers, Librarian.

WHO'S WHO IN LIBRARY WORK IN AGRICULTURE AND THE RELATED SCIENCES
(continued)

TENNESSEE

University of Tennessee, Knoxville. Miss Mary E. Baker, Librarian.
Agricultural Library, University of Tennessee, Knoxville. Miss Sarah
C. Currell, Librarian.
Tennessee Agricultural and Industrial State College, Nashville.
Mrs. Martha M. Brown, Librarian.

TEXAS

Agricultural and Mechanical College of Texas, College Station.
Mr. Thomas F. Mayo, Librarian.
Agricultural Experiment Station, College Station. Miss Pauline
Elkins, Librarian.
Prairie View State Normal and Industrial College, Prairie View.
Mr. O. J. Baker, Librarian.

UTAH

Utah State Agricultural College, Logan. Miss Hattie Smith, Assistant
Librarian.
Utah Agricultural Experiment Station, Logan. Mrs. Blanche C. Pittman,
Librarian.

VERMONT

University of Vermont, Burlington. Miss Helen B. Shattuck, Librarian.
* Agricultural Experiment Station, Burlington.

VIRGINIA

Virginia Polytechnic Institute, Blacksburg. Mr. Ralph M. Brown,
Librarian.
Agricultural Experiment Station, Virginia Polytechnic Institute,
Blacksburg. Mrs. A. P. Cunningham, Assistant Librarian in Charge,
Agricultural Section.
Virginia Truck Experiment Station, Norfolk. Mrs. Nancy D. Potter,
Librarian.

WASHINGTON

State College of Agriculture, Pullman. Mr. W. W. Foote, Librarian.
Agricultural Experiment Station, Pullman. Miss Carrie S. Hunt, Librarian.
Western Washington Experiment Station, Puyallup. Mr. Arthur Frank, Librarian.

WEST VIRGINIA

West Virginia University, Morgantown. Dr. L. D. Arnett, Librarian.
West Virginia State College, Institute. Mr. M. M. Jefferson, Librarian.

WISCONSIN

University of Wisconsin, Madison. Mr. Walter M. Smith, Librarian.
College of Agriculture, University of Wisconsin, Madison. Mr. Clarence
S. Hoan, Librarian.

WYOMING

University of Wyoming, Laramie. Miss Mary E. Marks, Librarian.

*Has no librarian, as far as known.

WHO'S WHO IN LIBRARY WORK IN AGRICULTURE AND THE RELATED SCIENCES
(continued)

2. U. S. Department of Agriculture

In Washington:

Librarian, Miss Claribel R. Barnett

Associate Librarian, Miss Emma B. Hawks

Readers' Division. Miss Emma B. Hawks, In Charge

Catalogue Division. Miss Helen M. Thompson, Chief

Periodical Division. Miss Lydia K. Wilkins, Chief

Branch libraries in the Bureaus.

Bureau of Agricultural Economics. Miss Mary G. Lacy, Librarian.

Division of Cotton Marketing. Miss Emily L. Day, Librarian.

Bureau of Agricultural Engineering. Mrs. Dorothy W. Graf, Librarian.

Bureau of Animal Industry. Miss Mary F. Thompson, Librarian.

Division of Animal Husbandry. Miss Jessie Urner, Librarian.

Bureau of Chemistry and Soils. Miss Minerva G. Beckwith, Librarian.

Fertilizer Investigations. Mrs. Lee A. Garby, Librarian.

Bureau of Dairy Industry. Miss Carrie B. Sherfy, Librarian.

Bureau of Entomology. Miss Mabel Colcord, Librarian.

Division of Bee Culture. Miss Ethel Coon, Librarian.

Office of Experiment Stations. Miss Cora L. Feldkamp, Librarian.

Forest Service. Miss Helen Moore, Librarian.

Bureau of Home Economics. Mrs. Mamie F. Nystrom, Librarian.

Bureau of Plant Industry. Miss Jessie M. Allen, Librarian.

Bureau of Public Roads. Miss O. Louise Evans, Librarian.

Weather Bureau. Prof. C. F. Talman, Librarian.

Outside of Washington:

Forest Service:

Forest Products Laboratory, Madison, Wisconsin. Miss Ellen A. Hoffman, Librarian.

Regional office, San Francisco, California. (Position of librarian vacant)

Regional office, Portland, Oregon. Miss E. Maude Stone, Librarian.

3. Miscellaneous Libraries, Societies and Institutions

In this list are included miscellaneous libraries having large collections on agriculture, horticulture, forestry and natural history. In the case of collections on these subjects belonging to universities and colleges (other than land-grant institutions) only those are included that are known to have special librarians in charge. Additions to this list or corrections will be gratefully received.

Academy of Natural Sciences, Philadelphia, Pa. Mr. Wm. J. Fox, Librarian.

American Museum of Natural History, New York. Miss Ida Richardson Hood, Librarian.

Boston Society of Natural History. Boston, Mass. Miss Mary B. Cobb, Librarian.

WHO'S WHO IN LIBRARY WORK IN AGRICULTURE AND THE RELATED SCIENCES

Miscellaneous Libraries, Societies and Institutions
(continued)

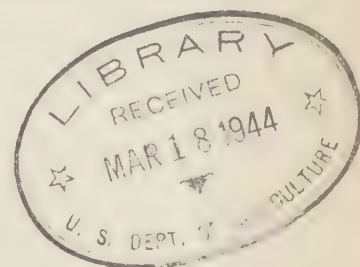
- Boyce Thompson Institute for Plant Research, Yonkers, N. Y. Miss Zeliaette Troy, Librarian.
- Brooklyn Botanic Garden, Brooklyn, N. Y. Mr. Calvin W. Foss, Librarian.
- Cleveland Museum of Natural History, Cleveland, O. Miss Minnie W. Taylor, Reference Librarian.
- Columbia University. Natural Science Libraries, New York. Miss Amy L. Hepburn, Librarian.
- Field Museum of Natural History, Chicago, Ill. Miss Emily L. Wilcoxson, Librarian.
- Harvard University, Arnold Arboretum, Jamaica Plain, Mass. Miss Ethelyn H.D. Tucker, Librarian.
- Harvard University. Farlow Reference Library, Cambridge, Mass. Miss Bertha E. Wood, Librarian.
- Harvard University. Gray Herbarium, Cambridge, Mass. Miss Ruth D. Sanderson, Librarian.
- Harvard University, Museum of Comparative Zoology, Cambridge, Mass. Miss Eleanor S. Peters, Librarian.
- Horticultural Society of New York, New York, Miss Elizabeth C. Hall, Librarian.
- International Harvester Co., Agricultural Extension Department, Chicago, Ill. Mrs. Kathryn B. Allen, Librarian.
- John Crerar Library, Chicago, Ill. Dr. J. Christian Bay, Librarian.
- The Lloyd Library, Cincinnati, O. Mr. Walter H. Aiken, Librarian.
- Massachusetts Horticultural Society, Boston, Mass. Miss Dorothy S. Monks, Librarian.
- Missouri Botanical Garden, St. Louis, Mo. Miss Nell C. Horner, Librarian.
- New York Botanical Garden, Bronx Park, N. Y. Miss S. H. Harlow, Librarian.
- Pennsylvania Horticultural Society, Philadelphia, Pa. Miss Maria B. Samuel, Librarian.
- Smithsonian Institution, Washington, D. C. Prof. W. L. Corbin, Librarian.
- University of Michigan, School of Forestry and Conservation, Ann Arbor, Mich. Miss Ina H. Rankin, Librarian.
- University of Pennsylvania Botanical Library, Philadelphia, Pa. Miss Anne S. Geiman, Librarian.
- Yale University, School of Forestry, New Haven, Conn. Miss Frances Bolton, Librarian.

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ISSUED MONTHLY
BY THE
UNITED STATES DEPARTMENT OF AGRICULTURE

WASHINGTON
D. C.

PRINCIPAL LIBRARY ACCESSIONSAgriculture

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Publications of the Chemical engineering division. 1933. 18 p.

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WHO'S WHO IN LIBRARY WORK IN AGRICULTURE AND THE RELATED SCIENCES
(Additions)

The following names should be added to the list of "Who's Who in Library Work in Agriculture and the Related Sciences" which appeared in the February, 1934, issue of Agricultural Library Notes:

California

Agricultural Reference Service, University of California, Berkeley.
Mrs. Aileen J. Katsky, in charge.

Virginia

Hampton Institute, Hampton. Miss Caroline L. Jones, Librarian.
Virginia State College for Negroes, Ettrick. Miss Alpha S. Rogers,
Librarian.

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CITIZENS' CONFERENCE ON THE LIBRARY NEEDS OF SOUTH CAROLINA

The Citizens' Conference on the Library Needs of South Carolina was called by President Sikes of Clemson College in cooperation with the State Library Board and the State Library Association at Clemson College, January 4-5, 1934. "Why this conference" was the subject of President Sikes' address at the opening session. Among the subjects discussed at the conference were the following: The library needs of South Carolina and how to meet them; Some social and political trends and their implications for libraries; How can a state program of library service be developed for South Carolina?

The proceedings of the conference have been mimeographed and are available from the Clemson College Library.

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NOTES ON PERIODICALS

- Der Blumen-und pflanzenbau. Berlin. Discontinued with jahrg. 48, no. 12, Dec. 1, 1933.
- Cooperative manager and farmer. Minneapolis, Minn. With v. 23, no. 5, Jan. 1934 changed to Grain & feed review.
- The gardening review (monthly) devoted to all agricultural and horticultural interests. 17, Mukkar Nallamuthu St., Madras, India. mo. 8°. v. 1, no. 1, Nov. 1933. Annual sub., inland, Rs 3/-; foreign, Sh. 6/-.
- Die Gartenwelt. Berlin. With jahrg. 38, nr. 1, Jan. 5, 1934 combined with Der Blumen-und pflanzenbau vereinigt mit Die Gartenwelt.
- The Glamorgan farmer, the official quarterly journal of the Glamorganshire agricultural committee. Edited by J. D. Davidson, Director of agriculture, County hall, Cardiff, Wales. Printed and pub. by E. J. Burrow & co., ltd., Imperial house, Cheltenham, and 125 Strand, London, W. C. 2. ports. 8°. v. 1, no. 1, Oct. 1933. 4 d. quarterly, 1/4 per annum.
- Hog breeder. Standard swine publications, inc., Union stock yards, Chicago, Ill. mo. 4°. il. v. 1, no. 1, Aug. 1933. \$1.50 a year.
- Praktische tuberkulose-blätter. Changed to Deutsches tuberkulose-blatt. Sonderbeilage zur Deutschen medizinischen wochenschrift with jahrg. 8, hft. 1, Jan. 1934.
- Silesia, Lower. Landwirtschaftskammer. Zeitschrift der Landwirtschaftskammer, Niederschlesien. Breslau. Changed to Der Schlesische bauernstand with jahrg. 38, hft. 1, Jan. 1, 1934.
- Swedish-American trade journal. New York. With v. 28, no. 1, Jan. 1934 changed to American Swedish monthly.
- Technik und wirtschaftswesen im bäcker-und konditorgewerbe, in der süß-, back-, teigwaren-und mühlen-industrie. With v. 16, no. 1, Jan. 1934, changed to Der Deutsche bäcker und konditor, verbunden mit Technik und wirtschafts-wesen in der süß-, waffel-und teigwaren-industrie.

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LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING FEBRUARY 1934

Alabama

Effective service; some 1932 results showing the value of county farm and home demonstration work in Alabama. (Ala. Poly. Inst. Ext. Circ. [i.e. Pamphlet 4]) Auburn, 1933.

Arizona

Fertilizers for Arizona soils. W. T. McGeorge. (Ariz. Agr. Col. Ext. Circ. 80) Fayetteville, 1933.

California

Rabbit raising. H. M. Butterfield and W. E. Lloyd. (Calif. Agr. Col. Ext. Circ. 9, rev.) Berkeley, 1933.

Fig culture in California. I. J. Condit. (Calif. Agr. Col. Ext. Circ. 77) Berkeley, 1933.

Delaware

Weekly food allowance for families of differing number in the family. (Del. Univ. Agr. Ext. [unnumbered]) Newark [1933?]

Illinois

The sheep enterprise; how to establish and maintain the farm flock. W. G. Kammlade. (Ill. Agr. Expt. Sta. Circ. 415) Urbana, 1933.

Agricultural outlook for Illinois, 1934. (Ill. Agr. Expt. Sta. Circ. 417) Urbana, 1934.

Kentucky

The corner stone of prosperity. T. R. Bryant. (Ky. Agr. Col. Ext. Circ. 271) Lexington, 1933.

Extension work in Kentucky discussed.

Michigan

Common binder head and knotted head troubles. H. H. Musselman and A. J. Bell. (Mich. Agr. Col. Ext. Bul. 134) East Lansing, 1933.

Agricultural situation and outlook for Michigan, 1934. (Mich. Agr. Col. Ext. Bul. 135) East Lansing, 1934.

Appetizing dishes from Michigan farm products. R. Hershey. (Mich. Agr. Col. Ext. Course Notes 112) East Lansing, 1933.

Minnesota

Care and feeding of swine. E. F. Ferrin. (Minn. Univ. Agr. Ext. Spec. Bul. 74 [rev.]) University Farm, St. Paul, 1933.

Reed canary grass for meadows and pastures. A. C. Army and R. E. Hodgson. (Minn. Univ. Agr. Ext. Spec. Bul. 137) University Farm, St. Paul, 1934.

Missouri

Producing hatching eggs. E. M. Funk. (Mo. Agr. Col. Ext. Circ. 309) Columbia, 1934.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING FEBRUARY 1934
(continued)

New Jersey

- The Angoumo is grain moth or fly weevil. T. J. Headlee. (N. J. Agr. Col. Ext. Bul. 112) New Brunswick, 1933.
- 1934 spraying recommendations for apples. T. J. Headlee [and others] (N. J. Agr. Col. Ext. Bul. 113) New Brunswick, 1934.
- Daily variations in the percentage of butterfat in herd milk. F. C. Button. (N. J. Agr. Col. Ext. Bul. 114) New Brunswick, 1934.
- Japanese beetle control in commercial fruit plantings; life-history, habit facts and methods of control. (N. J. Agr. Col. Ext. [unnumbered]) New Brunswick, 1933.
- Planning low-cost family meals. (N. J. Agr. Col. Ext. [unnumbered]) New Brunswick [1933?]
- Recommendations designed to prevent excessive spray residues. (N. J. Agr. Col. Ext. [unnumbered]) New Brunswick, 1933.

New York

- Plans of Cornell poultry houses and appliances. H. E. Botsford. (N. Y. Agr. Col. (Cornell) Ext. Bul. 139, rev.) Ithaca, 1933.
- Some facts concerning the marketing of eastern grapes. Part II. Retail distribution and consumer demand. M. P. Rasmussen. (N. Y. Agr. Col. (Cornell) Ext. Bul. 276) Ithaca, 1933.
- The control of diseases and insects affecting vegetable crops on Long Island. C. R. Crosby and C. Chupp. (N. Y. Agr. Col. (Cornell) Ext. Bul. 278) Ithaca, 1934.
- Varieties of vegetables for 1934. P. Work. (N. Y. Agr. Col. (Cornell) Ext. Bul. 279) Ithaca, 1934.
- The purpose and the plan of 4-H club work; directions for organizing 4-H clubs. (N. Y. Agr. Col., Cornell Junior Ext. Bul. 30, rev.) Ithaca, 1933.
- Instructions for leaders of 4-H clubs in agriculture and homemaking. (N. Y. Agr. Col., Cornell Junior Ext. Bul. 36, rev.) Ithaca, 1933.

North Carolina

- A study of the corn-hog reduction plan. (N. C. Agr. Col. Ext. Circ. 196) Raleigh, 1934.

Oklahoma

- Home demonstration meals. M. McPheeters. (Okla. Agr. Col. Ext. Circ. 243, reprint [i. e. rev.]) Stillwater, 1933.
- Grapes in Oklahoma. F. B. Cross and L. F. Locke. (Okla. Agr. Col. Ext. Circ. 254, rev.)
- Home preservation of fruits and vegetables. M. McPheeters. (Okla. Agr. Col. Ext. Circ. 260, rev.) Stillwater, 1933.
- Milk: the foundation of a safe diet. M. McPheeters and J. W. Boehr. (Okla. Agr. Col. Ext. Circ. 271, rev.) Stillwater, 1933.
- Four-H terracing manual. C. V. Phagan. (Okla. Agr. Col. Ext. Circ. 279, rev.) Stillwater, 1933.
- 4-H health demonstration. (Okla. Agr. Col. Ext. Circ. 302) Stillwater [1933?]
- The comfortable bedroom. M. Fitzgerald. (Okla. Agr. Col. Ext. Circ. 303) Stillwater [1933?]
- Family nutrition. M. McPheeters. (Okla. Agr. Col. Ext. Circ. 304) Stillwater [1933?]

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING FEBRUARY 1934
(continued)

South Dakota

Livestock judging: a manual for 4-H club members. G. S. Weaver. (S. D. Agr. Col. Ext., Spec. Ext. Circ. 29) Brookings, 1933.

Tennessee

Cheese making on the farm. G. N. Tobey. (Tenn. Agr. Col. Ext. Pub. 83, rev.) Knoxville, 1933.
How to produce good cream. C. A. Hutton. (Tenn. Agr. Col. Ext. Pub. 121, rev.) Knoxville, 1933.
The control of poultry lice and mites. S. Marcovitch. (Tenn. Agr. Col. Ext. Pub. 177) Knoxville, 1933.
How to grow and transplant trees and shrubs. W. C. Pelton. (Tenn. Agr. Col. Ext. Pub. 178) Knoxville, 1933.
Tomatoes in the farm garden. W. C. Pelton. (Tenn. Agr. Col. Ext. Pub. 180) Knoxville, 1933.
Grapes in the farm garden. W. C. Pelton. (Tenn. Agr. Col. Ext. Pub. 121) Knoxville, 1933.
Control of diseases and insect pests of Irish and sweet potatoes. W. C. Pelton. (Tenn. Agr. Col. Ext. Pub. 182) Knoxville, 1933.

Texas

Pastures. R. H. Rush. (Texas Agr. Col. Ext. [Bul.] B-82) College Station, 1934.
Culling hens for egg production. E. N. Holmgreen and P. A. Cunyus. (Texas Agr. Col. Ext. [Circ.] C-52 [rev.]) College Station, 1933.

West Virginia

Selecting chickens for egg production. H. M. Hyre. (W. Va. Agr. Col. Ext. Circ. 302) Morgantown, 1933.
Do parents learn? (W. Va. Agr. Col. Ext., Good Living Ser., Lesson 4) Morgantown [1933?]
It's fun to keep well. (W. Va. Agr. Col. Ext., Good Living Ser., Lesson 5) Morgantown [1933?]
Home crafts that add charm and cash. (W. Va. Agr. Col. Ext., Good Living Ser., Lesson 6) Morgantown [1933?]
Patriotism of the 4-H variety. (W. Va. Agr. Col. Ext., Good Living Ser., Lesson 7) Morgantown [1933?]
Come, let us play together. (W. Va. Agr. Col. Ext., Good Living Ser., Lesson 8) Morgantown [1933?]
Making the most of your dollar. (W. Va. Agr. Col. Ext., Good Living Ser. II, Lesson 1) Morgantown [1933?]
Native plants for ornamental use. T. D. Gray. (W. Va. Agr. Col. Ext., Landscape Ser. no. 8) Morgantown [1933?]
Methods of propagating plants. T. D. Gray. (W. Va. Agr. Col. Ext., Landscape Ser. no. 9) Morgantown [1933?]
West Virginia's cooperative demonstration poultry plant at Parkersburg. The story of it's history, accomplishments, operations and aims. (W. Va. Agr. Col. Ext. [unnumbered]) Morgantown [1933?]

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

of the U. S. Department of Agriculture
received during February, 1934, exclusive of bibliographies* and current
issues of serials.**

The dairy dilemma. Address by Henry A. Wallace at Farm and home week, Wisconsin college of agriculture, Madison, Wisconsin. Jan. 31, 1934. 24 p.

Statement by Secretary Wallace before House committee on agriculture, Feb. 13, 1934. 10 p.

Evaluating 1933 for the farmer. By Dr. Mordecai Ezekiel. Address before the American statistical association, Dec. 29, 1933. 13 p.

To be published in the June issue of the Journal of American statistical association.

Agricultural Adjustment Administration

The agricultural adjustment program for Kentucky tobacco growers. Address by J. B. Hutson before Kentucky farm and home convention, Lexington, Ky. Jan. 26, 1934. 13 p.

Sharing in the corn-hog program. Address by Dr. A. G. Black at Farm and home week, Iowa state college, Ames, Iowa, Feb. 6, 1934. 17 p.

Statistical problems of the meat packing industry under an Agricultural adjustment administration trade agreement. A paper delivered by Charles F. Sarle before the American statistical association on Thursday, Dec. 28, 1933, at Philadelphia. 10 p.

The use of rented acres in the cotton adjustment program. By J. Phil Campbell. 1934. 2 p. (Issued by Replacement crops section)

Bureau of Agricultural Economics

Bread consumption and trade in Scandinavian countries. By J. H. Shollenberger. Dec. 1933. 34 p. F.S.-60. (Issued by Foreign agricultural service)

A comparison of New England terms, southern mill rules, and Carolina mill rules, governing transactions in raw cotton, prepared in the Division of cotton marketing. Jan. 1934. 13 p.

A comparison of the trading rules of the Galveston, Memphis and New Orleans cotton exchanges, prepared in the Division of cotton marketing. Jan. 1934. 26 p.

A comparison of the trading rules of the Galveston, Corpus Christi, Fort Worth, Houston, Dallas and San Antonio, cotton exchanges, prepared in the Division of cotton marketing. Jan. 1934. 36 p.

*Bibliographies included in general list of bibliographies on pages 83-84.

**For a list of the principal series issued regularly, see v. 4, no. 1-2, p. 347

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Agricultural Economics (continued)

- A comparison of the trading rules of the Savannah, Augusta, Norfolk-Portsmouth, Mobile, St. Louis, and Clarksdale cotton exchanges, prepared in the Division of cotton marketing. Jan. 1934. 39 p.
- A comparison of the trading rules of state and regional cotton shippers' associations, prepared in the Division of cotton marketing. Jan. 1934. 22 p.
- Driven-in receipts of livestock. 1933. Feb. 1934. 28 p. (Compiled by Livestock, meats and wool division)
- Fruits: apples, citrus, peaches, etc. outlook charts, with explanations, 1933-34. 39 p.
- Index numbers of prices to producers of commercial truck crops for shipment, by months, since January 1924. 8 p.
- Land-use planning and the game crop. By C. F. Clayton. 11 p.
Address, American game conference, New York City, Jan. 24, 1934.
- The possibilities of foreign cotton production as indicated by conditions in Egypt and the Anglo-Egyptian Sudan. By P. K. Norris. 7 p.
Address, 35th annual convention, Association southern agricultural workers, Memphis, Tenn. Feb. 2, 1934.
- Potatoes and truck crops outlook charts with explanations, 1933-34. 34 p.
- Rice, peanuts, soybeans, dry beans, and broomcorn outlook charts with explanations, 1933-34. 24 p.
- Some recent changes in hay marketing practices. Sep. 15, 1933. 2 p. (Issued by Hay, feed and seed division)
- Tabular data and material as taken from rules governing transactions in raw cotton, prepared in the Division of cotton marketing. Jan. 1934. 13 p.
- Tobacco outlook charts with explanations, 1933-34. 22 p.

Bureau of Agricultural Engineering

- Research in mechanical phases of cotton ginning. By Charles A. Bennett. 7 p.
Paper delivered before Arkansas state ginners' association at Hot Springs, Ark., July 20, 1933.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

(continued)

Bureau of Biological Survey

The future job of the U.S. Biological Survey. An address by Paul G. Redington at the Twentieth American game conference. New York City, Jan. 24, 1934. 6 p.

Bureau of Chemistry and Soils

Directions for making crystallized maple cordial candy. Jan. 31, 1934. 8 p.

Sources of nitrogen for potato fertilizers compared on prominent soil types in New York, Pennsylvania, and Virginia. By B. E. Brown, G. V. C. Houghland, and F. R. Reid. Jan. 1934. 19 p.

In cooperation with the New York (Cornell) Agricultural experiment station, Pennsylvania Agricultural experiment station, and Virginia truck experiment station.

Bureau of Home Economics

Instructions for making a cotton mattress. January 1934. 4 p.

Varying the flavor and food value of home-made bread. [February] 1934. 6 p.

Bureau of Plant Industry

An extra early strain of Korean lespedeza. By A. J. Pieters. Feb. 1934. 3 p. (Issued by Division of forage crops and diseases)

Iarovization in field practice. By John H. Martin. Jan. 19, 1934. (Issued by Division of cereal crops and diseases)

Ladak alfalfa. By H. L. Westover. Feb. 1934. 3 p.

Leguminous crops for the south. Prepared by Roland McKee for Replacement crops section, Agricultural adjustment administration. 6 p. (Issued by Division of forage crops and diseases)

Milling and baking summary. By C. C. Fifield and J. A. Clark. 4 p. (Issued by Division of cereal crops and diseases)

The possibilities of pyrethrum as a crop in the United States. By A. F. Sievers. Feb. 1934. 3 p. (Issued by Division of drug and related plants)

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THE AMERICAN TURF REGISTER AND SPORTING MAGAZINE

(From "Some Sources for Northwest History," (1) by "B.L.H." which appeared in Minnesota History for December, 1933)

"The Christmas season was approaching in 1839 when Henry H. Sibley, the youthful agent of the American Fur Company at Mendota, made the following request of Ramsay Crooks, the president of his concern in New York: 'Will you do me the favor to pay for and have forwarded to me from 1 Jan. the "Spirit of the Times", and the "Turf Register & Sporting Magazine"... & charge amt. of subscription to each to my private a/c?' (2) Thus subscriptions for two popular magazines reached the publishers, and doubtless the periodicals found their way each month to the fur-trading post on the upper Mississippi.

Sibley was not the first frontiersman residing in the upper Northwest to be a regular reader of the American Turf Register and Sporting Magazine. This magazine, which began publication at Baltimore in 1829, was devoted particularly to horses. Sections were regularly given over to a racing calendar; owners could here register horses and their pedigrees; stable management, breeding, veterinary practices, and fox hunting were given due attention. Some space also was devoted to sports such as fishing and the hunting of wild game and birds. It was in this connection that the editor in an early issue called upon subscribers to contribute accounts of 'sports and game in the far west.' And they responded in surprising numbers. From St. Louis, Jefferson Barracks, Fort Dearborn, Fort Howard on Green Bay, Kaskaskia in Illinois, Prairie du Chien, and various points on the upper Mississippi came letters to the editor discussing hunts, game, and related topics that might prove of interest to the sportsmen of the East. Most of the writers used pseudonyms or initials in signing their contributions, but several of them can be identified and it is obvious from the contents of the letters that most of them were army officers stationed at frontier posts.

Some interesting and unusual accounts of life on the middle-western frontier a century ago are to be found in these letters. They reveal that army officers who had spent their early years in the old South, where fox hunting was a favorite sport, often found that the pursuit of deer or wolves was an equally exciting diversion. Of special interest are the letters of Lieutenant John G. Furman of South Carolina, for he pictures the Chicago region much as it must have been at the opening of the city's 'Century of Progress.' (3) From Fort Dearborn in the spring and summer of 1830 he wrote spirited accounts of wolf, deer, and fox hunts on the Illinois prairies, and of bird shooting in the swampy reaches that are now occupied by the metropolis of the Middle West. A district south of the fort he

(1) This is the first of a series of brief discussions of rare, unusual, or little-used sources for the history of Minnesota and the Northwest.

(2) The original of this letter, which is dated December 21, 1839, is in the Sibley Papers in the possession of the Minnesota Historical Society. It is printed in Theodore C. Blegen, ed., The Unfinished Autobiography of Henry Hastings Sibley, 71 (Minneapolis, 1932).

(3) Furman signed his contributions with his initials only, but he is identified in the Turf Register for February, 1831. He was graduated at West Point in 1827 and he died at Fort Dearborn in August, 1830. His letters appear in the issues for August and September, 1830, and February and June, 1831 (1: 595, 597, 2: 40-42, 286, 491-493). For a record of his military service see Francis B. Heitman, Historical Register and Dictionary of the United States Army, 1: 441 (Washington, 1903).

SOME SOURCES FOR NORTHWEST HISTORY

(continued)

describes as a huntsman's paradise where 'vast quantities of aquatic fowl congregate to feed... Swan, geese, and brant, passing to and fro in clouds, keep up an incessant cackling; ducks of every kind, from the mallard and canvass-back, down to the tiny water-witch and blue winged teal, add their mite to the "discord dire," while hundreds of gulls hover gracefully over... In April, myriads of plover and snipe take the place afore mentioned; still later, great quantities of woodcock, grouse, and ortalans, make their appearance.' The exploits of Captain Richard B. Mason, a Virginian stationed at Fort Crawford in the early thirties, are frequently mentioned in the Turf Register. 'Great Shooting' by the captain is described by one who signs himself 'A Hunter in the Prairie' in the issue for October, 1830. Mason also contributed to the magazine.

A number of items in the early volumes of the Turf Register touch upon the region of the upper Mississippi. Among them are accounts of trout fishing in the Wisconsin Valley, of 'Deer Hunting on the Water by Lamp Light,' of the way the Indians 'frequently combine shooting, fishing and gathering the wild rice,' and of a deer hunt on the Wisconsin River. To Minnesotans a description of a 'Wolf Chase on the Ice' which is signed by 'A.H.P.' is of special interest. (4) . The writer relates that 'Perhaps to hear of a wolf chase upon the ice, may not be less novel to some of your southern readers than "fishing on skates."

... Having my horse shod for the sport, with sharp heels and steel toes to his shoes," he continues, "I ran down and killed upon the ice thirteen wolves during the month of January." With this account is printed, to verify the writer's statement, a 'Certificate of E. T. Langham, Sub. Indian Agent," dated at Fort Snelling, February 3, 1831.

From time to time the Turf Register reprinted extracts from the published works of John Tanner, Lewis and Clark, Audubon, and other writers on the West. An account of 'Game in Wisconsin' is reprinted in the issue of September, 1837, from the Wisconsin Territorial Gazette. Some material from George Catlin's Letters and Notes is reproduced with one of his drawings in the May, 1842, number. Several years earlier Catlin contributed a letter to the Turf Register. (5) Another well-known contributor was Henry W. Herbert, who under the pseudonym of 'Frank Forester' prepared several series of articles for this periodical in 1839 and the early forties.

The Turf Register was published regularly until December, 1844, when volume 15 was completed. In the last issue appears an announcement that the magazine is to be discontinued, and that in the future for those who desire to register 'pedigrees of Blood Stock, etc.,.... the columns of the "Spirit of the Times" will be open.' In 1839 the ownership of the Turf Register was taken over by William T. Porter, editor of the Spirit of the

(4) This item appears in the Turf Register for December, 1831 (2: 182). The frontispiece for the issue is an engraving by E. W. Clay of the scene described. Two of the other upper Mississippi items noted are accompanied by illustrations by Peter Rindisbacher, whose work is described ante, p. 283-287. See the Turf Register for February and October, 1832 (3:296, 4:57-59). The latter account, which is signed "R.," may have been written by the artist. It includes an excellent description of the Indian methods of gathering and preparing wild rice.

(5) See the issue for August, 1836 (7:554-561).

SOME SOURCES FOR NORTHWEST HISTORY
(continued)

Times. The latter magazine has as its subtitle, A Chronicle of the Turf, Agriculture, Field Sports, Literature and the Stage. Thus the subject matter of the periodicals overlapped, and after publishing both for six years Porter probably found that subscribers were lacking for two magazines of so similar a type. Consequently he decided to combine them.

Although the Turf Register appears to have had numerous subscribers in the Middle West, only one complete file of the periodical is now available in that region, according to the Union List of Serials in Libraries in the United States and Canada. It is owned by the University of Minnesota and is to be found in its agricultural college library in St. Paul. Two other complete files of this early sporting magazine are noted in the Union List - one in the New York Public Library and the other in the library of the University of Oregon. An evidence of the extreme rarity of this once popular magazine is the fact that in 1931 a set sold at auction for \$450.00."

"B.L.H."

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MISCELLANY

The Mississippi Valley Historical Review for March, 1934, contains the following interesting note about the papers of Henry C. Adams:

"Among recent acquisitions of the State Historical Society of Wisconsin may be listed the papers of Henry C. Adams, for many years dairy and food commissioner, and from 1902 until his death in 1906, a member of Congress. The papers contain information of a stormy period in party alignment in Wisconsin and on his work in Washington on such important legislation as the Pure Food and Drugs Act, the New Mexico-Arizona joint statehood bill, and the Adams Act for increasing appropriations for agricultural experiment colleges."

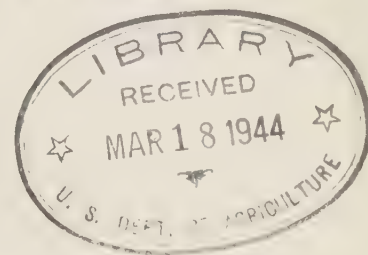
"Frontier Food" is the title of an article by Evadene A. Burris appearing in "Minnesota History" for Dec. 1933, vol. 14, no. 4, pp. 378-392. The article is based upon a chapter in the author's Master's thesis on "Frontier Homes and Home Management" which was submitted at the University of Minnesota in 1933. The account of frontier housekeeping that appeared in the September, 1933, issue of "Minnesota History" was taken from the same thesis.

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ISSUED MONTHLY
BY THE
UNITED STATES DEPARTMENT OF AGRICULTURE

WASHINGTON
D. C.

PRINCIPAL LIBRARY ACCESSIONSAgricultural Law

CALIFORNIA. LAWS, STATUTES, etc. Agricultural code. Sacramento, 1933.

Agriculture, Horticulture

STEVENS, G. A. Garden flowers in color. New York, Macmillan, 1934.

HANSEN, J. J. Større danske landbrug. København, A. Kappel of V. Richter Friis, 1930-33.

NIGERIA. AGRICULTURAL DEPT. Experiment on farming details at Moor plantation, Ibadan. 1922-32. Compiled by J. L. B. Kincaid. [Ibadan, 1932?]

Bacteriology

PARK, W. H., and WILLIAMS, A. W. Pathogenic microorganisms. Ed. 10. Philadelphia, Lea & Febiger, 1933.

SOCIETY OF AMERICAN BACTERIOLOGISTS. Bergey's manual of determinative bacteriology. Ed. 4. Baltimore, Williams & Wilkins, 1934.

TOPLEY, W. W. C. An outline of immunity. London, Arnold, 1933.

Biology, Medicine

ALLEN, EDGAR. Sex and internal secretions. Baltimore, Williams & Wilkins, 1932.

BRUMPT, EMILE, and NEVEU-LEMAIRE, M. Travaux pratiques de parasitologie. Ed. 2. Paris, Masson, 1933.

KHALIL, M. Report on the mission of the Research institute, Public health department, and the faculty of medicine, Cairo, to Siwa oasis, in January 1933, for the study of parasitic infections, malaria and diphtheria. Cairo, Ministry of the interior, Public health dept., 1933.

Botany

GREEN, G. R. Trees of North America (exclusive of Mexico) v. 1. Ann Arbor, Mich., Edwards, 1933.

OSTENIA: colección de trabajos botánicos dedicados a Don Cornelio Osten. Montevideo, 1933.

WEHMEYER, L. E. The genus Diaporthe Nitschke and its segregates. Ann Arbor, 1933. (University of Michigan studies. Scientific series, v. 9)

ZADE, ADOLF. Pflanzenbaulehre für landwirte. Berlin, Parey, 1933.

Building

WALKER, F. R. The building estimator's reference book. Ed. 7. Chicago, F. R. Walker co., 1931.

----- The vest-pocket estimator. Ed. 7. Chicago, F. R. Walker co., 1931.

PRINCIPAL LIBRARY ACCESSIONS
(continued)

Chemistry, Chemical Technology

- BOLAM, T. R. The Donnan equilibria and their application to chemical, physiological and technical processes. London, Bell, 1932.
- CHEMICAL FORMULARY. Editor-in-chief, H. Bennett. v. 1. Brooklyn, Chemical formulary co., 1933-34.
- CURME, G. O. Synthetic organic chemistry in industry. New York, Columbia university press, 1933.
- LINDNER, PAUL. Mikroskopische und biologische betriebskontrolle in den grungsgewerben mit besonderer bercksichtigung der brauerei. Ed. 6. Berlin, Parey, 1930.
- MAURIZIO, ADAM. Geschichte der gegorenen getrnke. Berlin, Parey, 1933.
- SACHANEN, A. N., and TILICHEYEV, M. D. Chemistry and technology of cracking. Translated by A. A. Boentlingk, D. F. Brown and K. T. Steik. New York, Chemical catalog company, 1932.
- TANNER, F. W. Food-borne infections and intoxications. Champaign, Ill., Twin City printing co., 1933.

Domestic Animals, Veterinary Medicine

- BEMIS, H. E. Veterinary surgical operations. [Teutopolis, Ill., Worman printery, 1933]
- ENGELER, WILLY. Die ergebnisse statistischer auswertung 40jhriger herdebuchaufzeichnungen beim schweizerischen braunvieh. Bern, Verbandsdruckerei, 1933.
- LAHAYE, JULES, and MARCQ, J. Trait complet d'aviculture. Gembloux, Duculot, 1933.
- RAEBIGER, H. O. B. R. Das meerschweinchen. Ed. 2. Hannover, Schper, 1933.
- WHITEHOUSE, R. H., and GROVE, A. J. The dissection of the rabbit. London, University tutorial press, 1933.

Economics

- ALEXANDER HAMILTON INSTITUTE, NEW YORK. Economic and legal implications of the NRA. New York [1933]
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WHO'S WHO IN LIBRARY WORK IN AGRICULTURE AND THE RELATED SCIENCES

Addition

Kentucky State Industrial College, Frankfort. Miss Emma B. Lewis, Librarian.

Corrections

No separate library is now maintained for the Agricultural Experiment Station, Pullman, Washington, this Library having been combined with the library of the State College of Washington.

Miss Gladys M. Oliver is the present librarian of the Western Washington Experiment Station, Puyallup. In the February issue of Agricultural Library Notes, it was erroneously stated that Mr. Arthur Frank was librarian.

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Arizona

Arizona agricultural situation, 1934. G. W. Barr. (Ariz. Agr. Col. Ext. [unnumbered]) Tucson, 1934.

California

Bush berry culture in California. H. M. Butterfield. (Calif. Agr. Col. Ext. Circ. 80) Berkeley, 1933.

A septic tank for farm homes. H. L. Belton and J. P. Fairbank. (Calif. Agr. Col. Ext. Circ. 82) Berkeley, 1933.

Growing and handling garlic in California. R. D. McCallum. (Calif. Agr. Col. Ext. Circ. 84) Berkeley, 1934.

Colorado

Control of cabbage and cauliflower insects. S. C. McCampbell. (Colo. Agr. Col. Ext. Circ. 79-A) Fort Collins, 1934.

Georgia

The cotton situation and a cotton program for Georgia. R. R. Childs and E. C. Westbrook. (Ga. Agr. Col. Ext. Bul. v. 22, no. 441) Athens, 1934.

4-H livestock manual. J. G. Liddell [and others] (Ga. Agr. Col. Ext. Bul. v. 22, no. 442) Athens, 1934.

Indiana

Home-made hog equipment. J. W. Schwab and G. O. Hill. (Purdue Univ. Agr. Ext. Bul. 199) Lafayette, 1934.

Burning chinch bugs in winter quarters. J. J. Davis. (Purdue Univ. Agr. Ext. Leaflet 125, rev.) Lafayette, 1934.

Iowa

Soybeans for dairy cows. C. Y. Cannon and F. Johnston. (Iowa State Col. Ext. Bul. 196) Ames, 1934.

Kansas

Suggestions for baking at home. C. Foote and M. R. Smith. (Kans. State Col. Ext. Bul. 73) Manhattan, 1933.

Revision of Ext. Bul. 61.

Maryland

Maryland spray calendar for apples and peaches, 1934. (Md. Univ. Agr. Ext. Circ. 103) College Park, 1934.

Minnesota

Equipment for chicks. C. Cooke. (Minn. Univ. Agr. Ext. Spec. Bul. 163) University Farm, St. Paul, 1934.

The concrete stave silo. D. G. Miller and P. W. Manson. (Minn. Univ. Agr. Ext. Circ. 44) University Farm, St. Paul, 1934.

Sausage recipes. P. A. Anderson. (Minn. Univ. Agr. Ext. Folder 48) University Farm, St. Paul, 1934.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING MARCH 1934
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Missouri

- Dry cleaning at home. M. E. Robinson. (Mo. Agr. Col. Ext. Circ. 312)
Columbia, 1934.
Establishing permanent pastures in Missouri. C. A. Helm and H. H. Krusekopf.
(Mo. Agr. Col. Ext. Circ. 314) Columbia, 1934.

Nebraska

- Tailored finishes made easy. H. Rocke. (Nebr. Agr. Col. Ext. Circ. 456)
Lincoln, 1933.
Happy homes - gilt edge investments. G. Woodman. (Nebr. Agr. Col. Ext.
Circ. 5507) Lincoln, 1933.

New Jersey

- 1934 spray schedule for grapes. T. J. Headlee [and others] (N. J. Agr. Col.
Ext. Bul. 115) New Brunswick, 1934.
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1934.
1934 spray schedule for pears. (N. J. Agr. Col. Ext. Bul. 117) New Brunswick,
1934.

North Carolina

- Spraying for control of apple blight. H. R. Niswonger. (N. C. Agr. Col. Ext.
Circ. 197) Raleigh, 1934.
Planning the home garden in eastern North Carolina. E. B. Morrow. (N. C. Agr.
Col. Ext. Circ. 198) Raleigh, 1934.

Oregon

- Oregon apple and pear spray recommendations for 1934. (Oreg. Agr. Col. Ext.
Bul. 469) Corvallis, 1934.

South Dakota

- Reading in the home; knowing other countries through books, fourth year.
L. J. Lewis and M. A. Dolve. (S. Dak. Agr. Col. Ext. Circ. 334) Brookings,
1933.
Your school lunch. S. Z. Wilder. (S. Dak. Agr. Col. Ext. Circ. 335) Brookings,
1933.
Homemakers' business facts. M. A. Covert. (S. Dak. Agr. Col. Ext. Circ. 336)
Brookings, 1933.
Music appreciation programs for rural clubs, third year. H. L. Kohler and
S. Z. Wilder. (S. Dak. Agr. Col. Ext. Circ. 337) Brookings, 1933.
Homemade yeast bread. S. Z. Wilder. (S. Dak. Agr. Col. Ext. Circ. 338)
Brookings, 1933.
Breads in foreign lands. S. Z. Wilder. (S. Dak. Agr. Col. Ext. Circ. 339)
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- Enjoyable jobs for leisure hours. M. A. Covert. (S. Dak. Agr. Col. Ext. Circ. 340) Brookings, 1933.
Safeguards to health. M. A. Covert. (S. Dak. Agr. Col. Ext. Circ. 341) Brookings, 1934.
Homemade conveniences. M. A. Covert. (S. Dak. Agr. Col. Ext. Circ. 342) Brookings, 1934.
A yearly food plan for South Dakota farms. (S. Dak. Agr. Col. Ext. Circ. 343) Brookings, 1934.
The thrift dish cook book. M. A. Dolve. (S. Dak. Agr. Col. Ext. Circ. 344) Brookings, 1934.

Tennessee

- The country home of good taste. L. Keller. (Tenn. Agr. Col. Ext. Pub. 183) Knoxville, 1934.
Sprays for fruit trees. W. C. Pelton. (Tenn. Agr. Col. Ext. Pub. 184) Knoxville, 1934.

Texas

- Growing baby chicks. E. A. Cunyus. (Texas Agr. Col. Ext. [Bul.] B-83) College Station, 1934.
Trench silos. M. R. Bentley. (Texas Agr. Col. Ext. [Bul.] B-84) College Station, 1934.

Washington

- Fruit jellies, preserves, jams, marmalades, conserves, and butters. F. W. Yeatman and M. C. Stienbarger. (Wash. State Col. Ext. Bul. 182) Pullman, 1934.
Recommendations for codling moth control in Washington for 1934. (Wash. State Col. Ext. Bul. 185) Pullman, 1934.

West Virginia

- Orchard spraying guide for West Virginia; spray schedules, spraying methods and materials. E. C. Sherwood. (W. Va. Agr. Col. Ext. Circ. 304) Morgantown, 1934.

Wisconsin

- Reed canary grass for Wisconsin lowlands. E. D. Holden and A. R. Albert. (Wis. Agr. Col. Ext. Circ. 264) Madison, 1934.

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SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

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Farm practice and agricultural adjustment. A radio talk by Henry A. Wallace, March 8, 1934, 7 p.

Agricultural Adjustment Administration

Administration's sugar program explained by Secretary Wallace. March 16, 1934. 9 p.

Agriculture's future under the new deal. By Victor A. Christgau. 11 p. Address at the University farm, St. Paul, Minn., March 27.

Cattle removal and production adjustment. 8 p.

Dairy adjustment - what and why. (Series of six articles issued as press releases)

Dairy production control proposals. 16 p.

A program for dairy farmers. Address of Chester C. Davis over an NBC network March 21, 1934. 8 p.

Wheat checks, the wheat plan, and farm income. Address by George E. Farrell at Annual convention of Farmers cooperative grain dealers association of Kansas, Wichita, Kansas, April 2, 1934. 7 p.

Bureau of Agricultural Economics

Alfalfa hay management studies; a preliminary report. By W. H. Hosterman, T. A. Kiesselbach, and Elvin F. Frolik. 1934. (Issued in cooperation with University of Nebraska agricultural experiment station)

Influence of motor-truck transportation on the fruit industry. By J. W. Park. 8 p. Address, Pennsylvania horticultural association, Harrisburg, Pa., Jan. 18, 1933.

Local government in New Jersey. By T. B. Manny. 28 p. (Issued by Division of farm population and rural life)
A series of addresses, Institute of rural economics, Rutgers university, New Brunswick, N. J., Feb. 26, 1934.

Practices followed by grape growers in fertilizing, tilling, spraying, and dusting, in New York, Pennsylvania, Michigan, and Arkansas vineyards. A preliminary report. By G. P. Scoville. March, 1934. 85 p. (Issued by Division of farm management and costs)

*Bibliographies included in general list of bibliographies on page 106.

**For a list of the principal series issued regularly, see v. 4, no. 1-2, p. 347.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
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Bureau of Animal Industry

Adjusting crop rotations for livestock production in corn belt. By A. T. Semple. Dec. 1933. 2 p.

Extension Service

Summary of seed-improvement work, reported by states, 1933. Feb. 1934. 12 p. Miscellaneous extension publication no. 13. (Issued by Office of cooperative extension work)

Forest Service

Suggestions for the solution of the forest tax problem. By Fred Rogers Fairchild. 13 p. Text of an address delivered before the 33d annual meeting of the Society of American foresters, Dec. 28, 1933.

Bureau of Home Economics

Noon meals for nursery schools. By Helen Nebeker Hann. Feb. 1934. 14 p.

Bureau of Plant Industry

Comparison of winter-wheat varieties grown in cooperative plot and nursery experiments in the hard red winter-wheat region in 1933. 56 p. (Issued by Division of cereal crops and diseases)

Crested wheatgrass. By H. L. Westover. 3 p. (Issued by Division of forage crops and diseases)

Home fruit and nut orchards on southern cotton farms. By C. P. Close and W. R. Beattie. 6 p. (Issued by Division of fruit and vegetable crops and diseases)

Prepared for the Replacement crops section of the Agricultural adjustment administration.

Grasses and legumes for permanent pastures. By H. N. Vinall and C. R. Enlow. Feb. 15, 1934. 16 p.

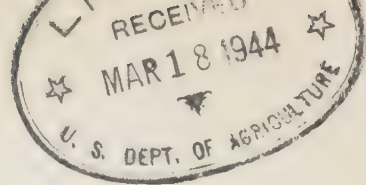
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LOST BOOKS

The books listed below cannot be found. It will be appreciated if anyone having information in regard to them will notify the Loan Desk of the main Library.

Russell, A. J. Soil conditions and plant growth. Ed. 6. Copies
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ISSUED MONTHLY
BY THE
UNITED STATES DEPARTMENT OF AGRICULTURE

WASHINGTON
D. C.

PRINCIPAL LIBRARY ACCESSIONS

Agricultural Education

McINTOSH, D. C., and ORR, D. M., eds. Agriculture for elementary schools. By R. A. Ballinger and others. New York, American book company [1933]
RAND, F. P. Yesterdays at Massachusetts state college, 1863-1933. Amherst, Associate alumni, Massachusetts state college, 1933.

Agricultural Machinery

CONGRÈS DE LA MACHINE AGRICOLE, PARIS, 1933. Compte-rendu. Paris, Publications de l'Union des exposants de machines et d'outillage agricole, 1933.

Agriculture

PUERTO RICO. MISIÓN AGRÍCOLA AL VALLE DEL CAUCA. Reconocimiento agropecuario del Valle del Cauca, dirigida por C. E. Chardon. San Juan, 1930.

Botany

BORODIN, D. N. Yarovization formulas for winter oats. [New York, Author, 1934] "Bibliography on yarovization": p. 15-16.
ELWES, H. J. A supplement to Elwes' Monograph of the genus Lilium, by A. Grove. pt. 1. London, Taylor and Francis, 1933.
KUSTER, ERNST. Hundert jahre Tradescantia. Jena, Fischer, 1933.
SCHENK, P. J. Albumbladen van plantenziekten en -beschadigingen. Haarlem, Floralia, 1930.
TAYLOR, GEORGE. An account of the genus Meconopsis. London, New flora and silva, 1934.

Chemistry and Physics

FOWLER, G. J. An introduction to the biochemistry of nitrogen conservation. London, Arnold, 1934.
GLASSTONE, SAMUEL. Lecture on "electrometric methods in physical and analytical chemistry," London, 1934. (Institute of chemistry of Great Britain and Ireland. [Publications])
HULTON, H.F.E. Beer. London, 1934. (Institute of chemistry of Great Britain and Ireland. [Publications])
LEVINSTEIN, HERBERT. The chemist as a directing force in industry. London, 1934. (Institute of chemistry of Great Britain and Ireland. [Publications])
MAIRET, E. M. Vegetable dyes; being a book of recipes and other information. useful to the dyer. Ditchling, Hassocks, Sussex, St. Dominic's press, 1931.
MARRACK, J. R. The chemistry of antigens and antibodies. London, 1934. (Medical research council. Special report series, no. 194)

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Chemistry and Physics
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- PERRY, J. H., ed. Chemical engineers' handbook prepared by a staff of specialists. New York, McGraw-Hill, 1934.
- RADLEY, J. A., and GRANT, JULIUS. Fluorescence analysis in ultra-violet light. London, Chapman & Hall, 1933. (A series of monographs on applied chemistry. v.7)

Domestic Animals. Veterinary Medicine

- CONGRÈS DE L'ÉLEVAGE, PARIS, 1932. Compte-rendu. Paris, Publications de la Société nationale d'encouragement à l'agriculture, 1933.
- EVERYBODY'S POULTRY MAGAZINE. Everybody's poultry scrap book, designed by R. C. Hartman. Hanover, Pa., 1933.
- IMPERIAL BUREAU OF ANIMAL GENETICS, EDINBURGH. Animal breeding in the British Empire; a survey of research and experiments, by F. F. Darling. Edinburgh, 1934.
- PALERMO. STAZIONE SPERIMENTALE ZOOPROFILATTICA DELLA SICILIA. Descrizione dell'istituto e rassegna delle sue attività. Palermo, Industrie riunite editoriali siciliane, 1932.
- RICE, J. E., and BOTSFORD, H. E. Practical poultry management. Ed. 3. New York, Wiley, 1933.

Economics

- ARGENTINE REPUBLIC. MINISTERIO DE AGRICULTURA. SECCIÓN DE PROPAGANDA E INFORMES. The marketing of Argentine fruit in Great Britain. Buenos Aires, 1934.
- CANADA. DEPT. OF AGRICULTURE. An economic analysis of cheese factory operations in Ontario. Ottawa, 1933.
- CINCINNATI BUREAU OF GOVERNMENTAL RESEARCH. The township government in the state of Ohio, with particular reference to Hamilton county. Cincinnati, 1933. Mimeographed.
- COOK, W. W. The tax problem in Illinois. [n. p.] Northern Illinois conference on supervision, 1934. Multigraphed.
- CORNELL UNIVERSITY. COLLEGE OF AGRICULTURE. DEPT. OF AGRICULTURAL ECONOMICS AND FARM MANAGEMENT. Comparison of the cost of living in the country and in the city (from a study of part-time farms in six selected New York counties) Prepared by Kenneth Hood. [Ithaca? N.Y.] 1934. Mimeographed.
- CORNELL UNIVERSITY. COLLEGE OF AGRICULTURE. DEPT. OF AGRICULTURAL ECONOMICS AND FARM MANAGEMENT. Some preliminary results of a study of part-time farms in Chemung and Tompkins counties, New York, 1932. Prepared by Kenneth Hood. Ithaca, N. Y., 1933. Mimeographed.
- CORNELL UNIVERSITY. COLLEGE OF AGRICULTURE. DEPT. OF RURAL SOCIAL ORGANIZATION. The rural homes of city workers and the urban-rural migration, by L. B. Tate. [Ithaca? N.Y.] 1933. Mimeographed.
- FREDERIC, K. A. Taxes and tax trends. Washington, National league of women voters, 1934.
- GERMANY. STATISTISCHES REICHSAMT. Deutscher landwirtschaftsatlas. Berlin, Hobbing, 1934.
- GUATEMALA. DIRECCIÓN DE AGRICULTURA. OFICINA CENTRAL DEL CAFE. Mapa cafetalero de la republica de Guatemala. Guatemala, 1933.

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Economics (cont'd)

- MICHIGAN. COMMISSION OF INQUIRY INTO COUNTY, TOWNSHIP AND SCHOOL DISTRICT GOVERNMENT. Population trends, by G. T. Ragsdale and L. D. Upson. Natural community areas, by J. F. Thaden. Rural land zoning, by P. A. Herbert. Detroit, 1933. (Michigan local government series)
- MILLER, L. B. Local finance and procedure. [Detroit] 1933. (Michigan. Commission of inquiry into county, township and school district government. Michigan local government series)
- MOLYNEAUX, PETER. Economic nationalism and problems of the South. Dallas, 1933. (Southern methodist university. Arnold foundation studies in public affairs. v.2, no.2.)
- MURPHY, W. C. County government and administration in Texas. Austin, 1933. (Texas. University. Bureau of research in the social sciences. Study no. 5)
- NATIONAL INDUSTRIAL CONFERENCE BOARD. Economic developments. New York, 1933.
- OHIO CHAMBER OF COMMERCE. The sales tax in five states: Illinois, Indiana. Michigan, New York and Pennsylvania, by A. D. Schultz. Ed. 2. Columbus, O., 1934.
- RENNE, R. R. The tariff on dairy products. Madison, Wisc., 1933. (Tariff research committee. Agricultural tariffs series. no.2)
- SCHULTZ, T. W. The tariffs on barley, oats and corn. Madison, Wisc., 1933. (Tariff research committee. Agricultural tariffs series. no.3)
- SCOTLAND. DEPT. OF AGRICULTURE. The agricultural output of Scotland, 1930. Edinburgh, 1934.
- SCOTLAND. DEPT. OF AGRICULTURE. Report on the marketing of grain and grass seed in Scotland: wheat, barley, oats, grass seed. Edinburgh, 1933.
- SEMAINE SOCIALE DU CANADA. 12th, RIMOUSKI, 1933. Le problème de la terre. Compte rendu des cours et conférences. Montréal, 1933.
- WALLACE, H. A. America must choose. New York, 1934. (World affairs pamphlets. no. 3)
- WOODDY, C. H. The growth of the federal government, 1915-1932. New York, McGraw-Hill, 1934.

Electricity

- SOUTH CAROLINA. STATE HIGHWAY DEPT. Survey of rural electrification in South Carolina, by A. R. Wellwood and others. Columbia, S.C., 1933.

Engineering

- PORTLAND CEMENT ASSOCIATION, CHICAGO. Tests of the fire resistance and strength of walls of concrete masonry units, by C. A. Menzel. Chicago, 1934.
- STREETTER, R. L., and LICHTY, L. C. Internal-combustion engines. Ed. 4. New York, McGraw-Hill, 1933.

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Entomology

- BRITISH MUSEUM (NAT.HIST.) DEPT. OF ENTOMOLOGY. A revision of the genus *Leptonoma* (Trichoptera) by M. E. Mosely. London, 1933.
- GT.BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. Insect pests of fruit trees. London, 1934. (Collected leaflets no.2)
- LENGERKEN, H. G. von. Das schädlingbuch für gärtner. Berlin, Brehm, 1932.
- WATERMAN, C. E. Apiatia; little essays on honey-makers. Medina, O., A. I. Root co., 1933.

Food, Cookery

- ASSISTANCE LEAGUE OF SOUTHERN CALIFORNIA. The palatists books of cookery. Hollywood, Calif., 1933.
- BARD, Lillian. Daily what to "eats". Lancaster, Pa., Author, 1933.
- BOTAZZI, FILIPPO, NICEFORO, A, and QUAGLIARIELLO, G. Documenti per lo studio della alimentazione della popolazione italiana nell'ultimo cinquantennio. Napoli, Jovene, 1933.
- NEW ENGLAND HOTEL WOMEN'S RELIEF ASSOCIATION, INCORPORATED, BOSTON. The New England hotel women's cookbook. Boston, 1933.
- ORDER OF THE EASTERN STAR, INDIANAPOLIS. NETTIE RANSFORD CHAPTER, NO. 464. Eastern star cook book. Indianapolis, 1933.

Forestry

- BRANDSTROM, A.J.F. Analysis of logging costs and operating methods in the Douglas fir region. [Seattle, Wash.] Charles Lathrop Pack forestry foundation under the auspices of the West coast lumbermen's association, 1933.
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- PHILIPPINE ISLANDS. BUREAU OF FORESTRY. Manual of procedure. Effective January 1, 1933. Manila, 1932.

Horticulture, Plant Breeding

- AMERICAN AMARYLLIS SOCIETY. Year book. v.1. Orlando, Fla., 1934.
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- MEYER, J. E. The herbalist. Hammond, Ind., Indiana botanic gardens [1934]
- SHOEMAKER, J. S. Small-fruit culture. Philadelphia, Blakiston, 1934.
- UNIVERSITY COLLEGE OF WALES, ABERYSTWYTH. WELSH PLANT BREEDING STATION. An account of the organization and work of the station from its foundation in April, 1919 to July, 1933. Aberystwyth, 1933.

Pathology

- SMITH, C. M. Housing conditions and respiratory disease; morbidity in a poor-class quarter and in a rehousing area in Glasgow. London, 1934. (Medical research council. Special report series, no. 192)

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Zoology

- SHELDON, H. H. The deer of California. Santa Barbara, Calif., 1933.
(Santa Barbara Museum of natural history. Occasional papers. no. 3)

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DR. STEPHEN MOULTON BABCOCK AND THE LIBRARY
OF THE WISCONSIN COLLEGE OF AGRICULTURE

The following article on the early history of the library of the Wisconsin State College of Agriculture is taken from the University of Wisconsin Press Bulletin, vol. 29, no. 11, April 25, 1934:

"Appreciation steadily increases of the heavy debt Wisconsin owes to the late Dr. Stephen Moulton Babcock. New information has lately come to light showing that Wisconsin is deeply indebted to its beloved scientist for no small share in the beginning of the library of its state college of agriculture, generally regarded as one of the finest collections of scientific works on agricultural subjects in existence anywhere. The story of the unselfishness and honesty of the great Wisconsin scientist was revealed recently while checking the early history of the state agricultural experiment station and college of agriculture. Back in 1888, after the late Stephen M. Babcock, inventor of the Babcock test, had joined the staff of the University of Wisconsin he was tendered his first salary check. Having been delayed in taking over his duties he declined the check. Records recently unearthed show that instead of accepting the money, he directed that it be used for the purchase of scientific books in the fields of agricultural chemistry and dairy science, all material then sorely needed by the state's budding farm library and farm school. The books were purchased and have ever since been a valuable part of the agricultural library at the University. Five important periodical files were included in this purchase made possible by the devotion of Dr. Babcock to the best interest of the state. These publications were: Journal für Landwirtschaft, 1853-1887; Landwirtschaftliche Jahrbücher, 1872-1887; Zeitschrift für Analytische Chemie, 1862-1887; Milch Zeitung, 1872-1887, and Jahresbericht über die Agricultur-Chemie, 1858-1877. These volumes, all of which begin with volume 1, have been continued in the Wisconsin agricultural library to the present time, and with the one exception of Milch Zeitung, are still being received at the library.

More than forty-five years have elapsed since this library was started and during this period the identity of the donor of the funds remained but a fact of hidden record. Those who have since and are now engaged in the scientific fields in which Dr. Babcock worked, as well as others who appreciate the interest which this noted inventor took in the early establishment of the Wisconsin agricultural library, are now seeking ways in which proper credit and recognition may go to the man to whom so much credit is due."

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NEW LIBRARY BUILDING FOR THE INTERNATIONAL INSTITUTE OF AGRICULTURE
AT ROME

The new building for the Library of the International Institute of Agriculture at Rome, to house one of the largest collections of agriculture in the world, has now been completed. It has been constructed with the funds supplied by the Italian Royal Commission for the administration of estates in the use of the Institute and is planned according to modern principles of library service. On the 6th of March the Commission turned the new building over to the Institute.

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- BRINK, R. A. Self-incompatability in yellow sweet clover, *Melilotus officinalis*. Jour. Amer. Soc. Agron. 26(4):307-312. April 1934.
- COLE, L. J. Government research. Science n.s. 79(2044):204-205. March 2, 1934.
- DEAN, L. A. Electrodialysis as a means of studying the nature of soil phosphates. Soil Sci. 37(4):253-266. April 1934.
- HECK, A. F. A soil hygrometer for irrigated cane lands of Hawaii. Jour. Amer. Soc. Agron. 26(4):274-278. April 1934.
- TEMPLETON, H. L., and SOMMER, H. H. Studies on whipping cream. II. Jour. Dairy Sci. 17(4):307-319. April 1934.

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- BEATH, O. A. [and others] Certain poisonous plants of Wyoming activated by selenium and their association with respect to soil types. Jour. Amer. Pharmaceutical Assoc. 23(2):95-97. Feb. 1934.

NOTES ON PERIODICALS

- L'Agricoltura razionale. Roma. Changed to Nuova vita rurale; agricoltura razionale with anno 6, no. 1, Jan. 1934.
- Bauer u. geflügel; zeitschrift für bauerliche nutzgeflügelzucht. Leipzig. Discontinued publication with jahrg. 5, no. 12, Dec. 15, 1933. Merged with Deutsche landwirtschaftliche geflügelzeitung.
- Fish and game news of America. Becket pub. co., Inc., Greenfield, Mass. weekly. 1st il. v. 1, no. 1, Jan. 27, 1934.. \$3.00 a year.
- Florida conservator. Rose Building, Tallahassee, Fla. mo. 4th v. 1, no. 1, Apr. 1934. Free to conservation and sportsmen's organizations, newspapers, etc., and on request of the public.
- Forest crusader. Editor: O. Shierbeck, Roy Building, Halifax, N. S. mo. 4th il. Apr. 1934. \$1.00 a year.
- Nankai weekly statistical service. Tientsin, China. Changed, with v. 7, no. 1, Jan. 1934, to Nankai university - Nankai institute of economics, Monthly bulletin on economic China.
- National Duroc news and Duroc journal-bulletin. Peoria, Ill. With v. 8, no. 4, Apr. 1934, absorbed Duroc sentinel and continued as Duroc news. (Published at Morton, Ill.)

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Miscellaneous:

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Prepared in the U. S. Department of Agriculture

Bureau of agricultural economics:

A brief list of references relating to nationalism, internationalism, or a planned middle course. Comp. in the library of the bureau. March 16, 1934. 10 p. typewritten. May be borrowed for copying.

Bureau of chemistry and soils:

Partial list of references on beverages and soft drinks. Prepared in Food research division. Apr. 2, 1934. 1 p.

Bureau of entomology:

A bibliography on the use of airplanes in insect control from 1922 to 1933. Comp. by Walker E. McBath. 37 p.

Bureau of home economics:

Electric ranges. A partial list of references. Comp. by Harriet R. Howe. 1934. 12 p.

AGRICULTURAL LIBRARIES SECTION MEETING

The local committee of librarians in Montreal in making arrangements for the American Library Association meeting to be held there in June, 1934, has obtained the kind cooperation of Macdonald College which will provide space for the Agricultural Libraries Section meeting on Friday afternoon, June 29, and will also provide luncheon for sixty delegates. The college is beautifully located at St. Anne de Bellevue, thirty miles from Montreal.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING APRIL 1934

Arizona

Zinc treatment of pecan rosette. A. H. Finch and A. F. Kinnison. (Ariz. Agr. Col. Ext. Circ. 82) Tucson, 1934.

Delaware

Brooding, management and feeding of baby chicks. A. E. Tomhave and C. W. Mumford. (Del. Univ. Agr. Ext. Bul. 19) Newark, 1934.

Annual report of the Extension Service in agriculture and home economics for the year ending November 30, 1933. Financial statement for the fiscal year ending June 30, 1933. C. A. McCue. (Del. Univ. Agr. Ext. Bul. 20) Newark, 1934.

Georgia

4-H farm crops manual. E. C. Westbrook [and others] (Ga. Agr. Col. Ext. Bul. v. 22, no. 443) Athens, 1934.

Indiana

Dock all lambs and castrate all male lambs intended for market. C. Harper. (Purdue Univ. Agr. Ext. Bul. 200) Lafayette, 1934.

Sanitary control of intestinal worms in hogs. R. A. Craig. (Purdue Univ. Agr. Ext. Leaflet 143, 2d rev. ed.) Lafayette, 1934.

Kansas

The Kansas agricultural outlook for 1934. (Kans. State Col. Ext. Circ. 103) Manhattan, 1934.

Maryland

Producing snap beans for canning. T. D. Holder and H. A. Hunter. (Md. Univ. [Agr.] Ext. Circ. 104) College Park, 1934.

Your small motor; how to increase its usefulness. G. W. Kable. (Md. Univ. [Agr.] Ext. Circ. 105) College Park, 1934.

Michigan

Living with pictures. G. Reis. (Mich. Agr. Col. Ext. Bul. 136) East Lansing, 1934.

The bean weevil. C. B. Dibble. (Mich. Agr. Col. Ext. Bul. 138) East Lansing, 1934.

Minnesota

Judging dairy cattle. W. E. Petersen and H. R. Searles. (Minn. Univ. Agr. Ext. Spec. Bul. 92, rev.) University Farm, St. Paul, 1934.

Alfalfa aids progress in Minnesota. A. C. Arny. (Minn. Univ. Agr. Ext. Spec. Bul. 104 [rev.]) University Farm, St. Paul, 1934.

Grow more soybeans in Minnesota. A. C. Arny and R. E. Hodgson. (Minn. Univ. Agr. Ext. Spec. Bul. 134, rev.) University Farm, St. Paul, 1934.

Sheep on Minnesota farms. P. A. Anderson. (Minn. Univ. Agr. Ext. Spec. Bul. 141, reprinted [i.e. rev.]) University Farm, St. Paul, 1934.

Using horses on the farm. A. L. Harvey. (Minn. Univ. Agr. Ext. Spec. Bul. 145, rev.) University Farm, St. Paul, 1934.

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The agricultural extension service, Missouri college of agriculture; annual report for 1933. R. R. Thomasson. (Mo. Agr. Col. Ext. Circ. 310) Columbia, 1934.
The family garden. J. W. C. Anderson. (Mo. Agr. Col. Ext. Circ. 311) Columbia, 1934.
Good pasture practice. C. A. Helm. (Mo. Agr. Col. Ext. Circ. 313) Columbia, 1934.

Montana

The Montana agricultural outlook. P. Carpenter. (Mont. Agr. Col. Ext. Circ. 62) Bozeman, 1934.

New York

Cornell poultry range shelter. L. M. Roehl and J. H. Bruckner. (N. Y. Agr. Col. (Cornell) Ext. Bul. 280) Ithaca, 1934.
Fertilizer recommendations for New York. (N. Y. Agr. Col. (Cornell) Ext. Bul. 281) Ithaca, 1934.

Utah

Raising dairy calves. G. B. Caine. (Utah Agr. Col. Ext. New Series Circ. 64) Logan, 1934.

Washington

Control of some common vegetable insects. R. L. Webster. (Wash. State Col. Ext. Bul. 186) Pullman, 1934.
How to organize a home demonstration club. (Wash. State Col. Ext. Bul. 187) Pullman, 1934.
Brining vegetables and making pickles. (Wash. State Col. Ext. Bul. 189) Pullman, 1934.
Use and care of the pressure cooker. (Wash. State Col. Ext. Circ. 21) Pullman, 1934.
Turkey raising in Washington. W. D. Buchanan. (Wash. State Col. Ext., Poultry Pointers no. 16) Pullman, 1934.
The Washington range shelter. G. E. Bearse. (Wash. State Col. Ext., Poultry Pointers no. 17) Pullman, 1934.

Wisconsin

Making the best use of Wisconsin land through zoning. (Wis. Agr. Col. Ext., Spec. Circ. [unnumbered]). Madison, 1934.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
of the U. S. Department of Agriculture
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current issues of serials.**

The dairy problem. Speech of Henry A. Wallace at Philadelphia, Monday, April 2, 1934, at first session of regional dairy conference for dairy-men of Pennsylvania, New Jersey, Maryland, Delaware, Virginia, and West Virginia. 23 p.

The rules of the game. Address of Henry A. Wallace at a special arbor day celebration, Nebraska City, Neb., April 23, 1934. 19 p.

The return to democracy. Address of Rexford G. Tugwell before the American society of newspaper editors, April 21, 1934, 15 p.

Agricultural Adjustment Administration

Agriculture and foreign trade. Remarks by Chester C. Davis, broadcast over an NBC network, 10:45 p. m. Thursday, April 19, 1934, in a series on "America's choice of a trade policy" arranged by the Foreign policy association and the World peace foundation.

Beef cattle control possibilities. Statement by Harry Petrie, Chief, Beef cattle and sheep section, Chicago, April 26. 4 p.

Beef cattle under the adjustment act.. Address of Chester C. Davis at conference of beef cattle producers, Sherman hotel, Chicago, Ill., Thursday, April 26, 1934. 15 p.

Cattle removal and production adjustment. 1934. 8 p.

The second phase. of the wheat program. Address by George E. Farrell at Annual convention of Farmers cooperative grain dealers association at Enid, Oklahoma, April 6, 1934.

Significance of Agricultural adjustment administration to Northeastern states. Address by Chester C. Davis at the conference of extension workers and representatives of farm organizations at Syracuse, N. Y., April 5, 1934. 12 p.

The just tax and its cost to farmers of the Pacific northwest. 10 p.

Planned production for the dairy industry. A radio talk by H. R. Tolley, National farm and home hour, Mar. 27, 1934. 6 p.

*Bibliographies included in general list of bibliographies on page

**For a list of the principal series issued regularly, see v.4, no.1-2, p.347.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
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Bureau of Agricultural Economics

The beef cattle situation. Statement by G. B. Thorne at Beef cattle conference, Chicago, April 26, 1934, 9 p.

Carlot unloads of certain fruits and vegetables in 66 cities, 1933.
(Issued by Market news service)

Economic aspects of chicken and egg production in the United States.
Organization and distribution of the industry. A preliminary report.
By Marion Clawson. 38 p. (Issued by Division of farm management and costs)

Farm real estate taxes in the U. S., by states and geographic division, 1913-1932. By Bushrod Allin, Donald Jackson, and Janet L. Weston.
(Issued by Division of agricultural finance)

Fats and oils: statistics of United States production trade and consumption, 1912-1933. 1934. (Issued by Division of statistical and historical research)

Bureau of Animal Industry

Artificial insemination. By Hugh C. McPhee. 3 p.

Brewery, distillery, vinegar and yeast by-products for feeding livestock.
By E. W. Sheets, A. T. Semple, and J. B. Shepherd. Mar. 8, 1934. 8 p.
(Issued by Division of Animal Husbandry)
In cooperation with Bureau of Dairy Industry.

Bureau of Biological Survey

Feeding schedule for rabbits. Leaflet Bi-1318. 1 p. Mar. 1934.

Emergency conservation work in relation to wild life in the Allegheny National Forest, Pennsylvania, January 15-19, 1934. By E. A. Goldman.
7 p.
In cooperation with Forest Service.

Bureau of Dairy Industry

Suggested methods for reducing milk production and curtailing sales under the AAA program. 1934. 30 p.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
(continued)

Extension Service

Economics extension and the Agricultural adjustment administration. A discussion of the farm management phases. By H. M. Dixon. 1933. 4 p.

A paper read at the American farm economics association meeting, Philadelphia, Pa., Dec. 29, 1933.

Index number of prices and business conditions in the United States. Handbook of economic information. Feb. 1934. 8 p. (In cooperation with Bureau of agricultural economics).

Bureau of Home Economics

Electric ranges for household use. 1934. 10 p.

School lunches, with recipes to serve fifty children. 1934. 13 p.

Bureau of Plant Industry

Directions for growing pyrethrum, By A. F. Siever. Mar. 1934. 2 p. (Issued by Division of drug and related plants)

New crops for the American Sahara. By Walter T. Swingle. Mar. 7, 1934. 3 p. (Issued by Division of fruit and vegetable crops and diseases).

A radio talk presented under the auspices of Science Service over the C.B.S.

Vinifera grapes in the east. By J. R. Magness and I. W. Dix. Mar. 1934. 3 p. (Issued by Division of fruit and vegetable crops and diseases)

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LOST BOOKS

The books listed below cannot be found. It will be appreciated if anyone having information in regard to them will notify the Loan Desk of the main Library:

Sansome, F. W. Recent advances in plant genetics. 1932.

Ludlow, Louis. America go bust. 1933.

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AGRICULTURAL LIBRARY NOTES

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ISSUED MONTHLY
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UNITED STATES DEPARTMENT OF AGRICULTURE

WASHINGTON
D. C.

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Agriculture, Horticulture

- HOWARD, J. G. The national planting & operating almanac. Clayton, Mo., St. Louis county leader, 1933.
- LONG, H. C. Weed suppression by fertilizers and chemicals. London, London Caledonian press, 1934.
- NAGORE, D. N. Cultivo de los cereales en España. Madrid, M. Marin y G. Campo, 1933.
- NAVARRO DE ANDRADE, EDMUNDO. Manual de citricultura. v.2. São Paulo, "Chacaras e quintaes", 1933.

Botany

- GOUJON, G. Les relations entre la végétation française et le climat. Paris, 1932. (Ministère de l'air. Memorial de l'office national météorologique de France. no.23)
- STEYN, D. G. The toxicology of plants in South Africa. Johannesburg, S.A., Central news agency, 1934. (South African agricultural series, v.13)

Brewing

- ARNOLD, J. P. History of the brewing industry and brewing science in America. Chicago, Siebel-Schwarz memorial, 1933.

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- CALKINS, MYRTLE. The home menu cook book. Chicago, Goldsmith, 1934.
- DOUGLASS, H. M. What to serve and how to prepare it. Kansas City, Mo., Du Garr, 1934.
- WAITT, C. F. Clara Waitt's cook book. Sioux City, 1934.

Domestic Animals, Veterinary Medicine

- ACTA VETERINARIA NEERLANDICA. t.1, fasc.2. Utrecht, 1933.
- LEWIS, H. R. Productive poultry husbandry. Philadelphis, Lippincott, 1933.

Economics, Statistics

- ADAMS, W. H. An economic and social survey of Bedford county. Charlottesville, 1933. (University of Virginia record. Extension series. v.12, no.2)
- AMERICA'S RECOVERY PROGRAM, by A. A. Berle, jr., R. G. Tugwell [and others]
Edited by Clair Wilcox, H. F. Fraser, P. M. Malin. New York, Oxford university press, 1934.
- CHASE, STUART. The economy of abundance. New York, Macmillan, 1934.
- COLUMBIA UNIVERSITY. COMMISSION ON ECONOMIC RECONSTRUCTION. Economic reconstruction. New York, 1934.
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- GT. BRIT. MINISTRY OF AGRICULTURE AND FISHERIES. Draft of a scheme under the Agricultural marketing act, 1931, regulating the marketing of sugar produced in Great Britain. London, 1934.
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- KIRSOPP, G. D., AND BARTLETT, C. A. Report of a mission appointed to investigate the clove trade in India and Burma, Ceylon, British Malaya and the Dutch East Indies. London, Pub. on behalf of the government of Zanzibar by the Crown agents for the colonies, 1933.
- MAHR, ALEXANDER. Die städtrandsiedlung. Wien, Gerold, 1933.
- MASSACHUSETTS. GENERAL COURT. JOINT SPECIAL COMMITTEE ON PUBLIC EXPENDITURES. Report. Boston, 1933.
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- NEW ZEALAND. PRIME MINISTER. Statistical and other information relating to the dairying industry. Wellington, 1934.
- NIGERIA. CENSUS OFFICE. Census of Nigeria, 1931. v.1-6. London, Crown agents for the colonies, 1932-33.
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- TSAI, CHIEN, and CHAN, KWAN-Wai. Trend and character of China's foreign trade, 1912-1931. Rev. ed. [n.p.] China institute of Pacific relations, 1933.
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- WIRT, W. A. America must lose - by a "planned economy", the stepping-stone to a regimented state. New York, Committee for the nation to rebuild prices and purchasing power, 1934.
- YANG, C., and others. Statistics of China's foreign trade during the last sixty-five years. Shanghai, 1931. (National research institute of social sciences, Academia sinica. Monograph, no.4)

Education

- ADELAIDE. UNIVERSITY. WAITE AGRICULTURAL RESEARCH INSTITUTE. Report. Adelaide, 1934.
- GT. BRIT. BOARD OF EDUCATION. Education and the countryside. London, 1934. (Educational pamphlets, no.99)

Entomology

- IMMS, A. D. A general textbook of entomology. Ed. 3. London, Methuen, 1934.
- NOVITATES ENTOMOLOGICAE; revue mondiale d'entomologie systématique. année 1-3, no.4; Aug. 1931 - Dec. 1933. Paris, 1931-33.

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BENEDICT, F. G., and BENEDICT, C. G. Mental effort in relation to gaseous exchange, heart rate, and mechanics of respiration. Washington, 1933. (Carnegie institution of Washington. Publication no. 446)

Roads, Traffic

DOWNES, W. S. The cost of providing highways suitable for various classes of vehicles. The economic effect of heavy vehicles on highways. Philadelphia, Allen, Lane & Scott, 1933.

MASSACHUSETTS. GOVERNOR'S COMMITTEE ON STREET AND HIGHWAY SAFETY. Traffic safety survey, Waltham, Massachusetts. Boston, 1933. Mimeographed.

Rubber

STEVENS, H. P., and STEVENS, W. H. Rubber latex. London, Rubber growers' association, 1933.

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NEW HAMPSHIRE. STATE PLANNING BOARD. Town and city zoning and planning primer. Concord, 1934.

Zoology

BAILEY, VERNON. Cave life of Kentucky, mainly in the Mammoth cave region, by Vernon Bailey, with chapters on the birds, by Florence Merriam Bailey, and on the invertebrates, by Leon Giovannoli. Prepared in the Bureau of biological survey, U. S. Department of agriculture, in cooperation with the Kentucky State geological survey. Notre Dame, Ind., University press, 1933. Reprinted from the American midland naturalist, v.14, no.5.

HELMINTHOLOGICAL SOCIETY OF WASHINGTON. Proceedings. v.1, no.1; Mar.1934. Washington, 1934.

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I. Die entwicklung der bakterienflora in "Schlempemilch" unter berücksichtigung der pufferung der milch. II. Die abhangigkeit des wachstums einiger alkalibildender organismen von der wasserstoffionenkonzentration. Borna-Leipzig, 1933. Inaug.-diss. Kiel.
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- MARKWARDT, HERMANN. Untersuchung über die hautreizende wirkung von kantharidin-euzerinsalben. Berlin, 1932. Inaug.-diss. Tierärztl. hochschule, Berlin.
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The International Institute of Agriculture at Rome has recently published the 1932-33 edition of the "International Yearbook of Agricultural Statistics". This volume of about 800 pages is the result of the most extensive and detailed inquiry made in the domain of international agricultural statistics and constitutes a work of great importance to all those who are interested in questions having a direct or indirect relation to production and commerce of agricultural products.

The forestry statistics will be published, as last year, in a separate volume under the title "International Yearbook of Forestry Statistics".

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- HARRISON, J. L. Management of construction. (Pt.10 - business problems of contracting) Engin. News-Rec. 112: 512-514. Apr. 19, 1934.
- HOGEOTGLER, C. A. Soil analysis. Utilization in economic highway construction. Public Works 65(5):21-22. May 1934.
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PUBLICATIONS BY U. S. DEPARTMENT OF AGRICULTURE WORKERS
APPEARING OUTSIDE THE DEPARTMENT
(continued)

The Americana Annual for 1934 calls attention in its "Partial List of Contributors" to the following articles by U. S. Department of Agriculture workers:

Agriculture in the United States.

United States Department of Agriculture.

By A. P. Chew, Assistant to Director, Office of Information.

Bureau of Animal Industry.

By J. R. Mohler, Chief of the Bureau.

Bureau of Biological Survey.

By P. G. Redington, former Chief of the Bureau.

Bureau of Chemistry and Soils.

By H. G. Knight, Chief of the Bureau.

Bureau of Entomology.

By Mary E. Herlihy, Secretary to the Chief of the Bureau.

Food and Drug Administration.

By F. B. Linton, Assistant to the Chief, Food and Drug Administration.

Forest Service.

Lumber.

By C. E. Randall, In Charge, Educational Cooperation, Forest Service.

Meteorology.

By C. F. Talman, Librarian, Weather Bureau.

Bureau of Public Roads.

By H. S. Fairbank, Chief, Division of Information, Bureau of Public Roads.

The volume also contains a series of articles dealing with the various relief agencies which have been set up by the Administration in Washington to combat the economic depression. In addition to summaries of the acts under which these agencies have been set up, texts are given in full of the Agricultural Adjustment Act, the Banking Act of 1933, and the National Industrial Recovery Act.

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MALARIA LIBRARY

An appeal has been received by the Department from the Stazione Sperimentale per la Lotta Antimalarica, Corso Vittorio Emanuele 168, Roma, 116, for publications pertaining to malaria. A malaria library was founded by this station in 1925, which issues annually an index to malarial literature and is prepared to supply at cost photostat copies of any articles on file.

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ARTICLES BY STATE AGRICULTURAL EXPERIMENT STATION WORKERS *

(exclusive of State Station and U. S. Department of Agriculture publications)

Alabama

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CRAFTS, A. S. The effects of thallium sulfate upon soils. Science n.s. 79 (2038): 62. Jan. 19, 1934. (Special articles)

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FREEBORN, S. B., REGAN, W. M. (With L. J. BERRY, Univ. Calif.) The effect of petroleum oil fly sprays on dairy cattle. Jour. Econ. Ent. 27(2): 382-388. April 1934.

GUILBERT, H. R. (With A. McDONALD, Univ. Calif.) Weight records on purebred beef cattle during growth, gestation, and lactation, together with data on reproduction. Amer. Soc. Anim. Prod. Proc. 26(1933): 244-253. Jan. 1934.

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MORGAN, A. F. (With Z. SAMISCH, Univ. Calif.) The sequence and extent of tissue changes produced by viosterol and parathyroid extract. Jour. Biol. Chem. 105 (2): lxiv. May 1934. (Proceedings)

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NOTES ON PERIODICALS

- Agricultura; organo oficial de la secretaría de agricultura y fomento. Director: Arturo M. Escandon, Jefe de la Oficina de publicaciones y propaganda. Tacuba num. 7, Mexico, D. F. mo. 4^o il. v. 1, no. 1, Mar. 31, 1934.
- British Guiana, Dept. of Agriculture. Agricultural journal of British Guiana. Georgetown, British Guiana. Resumed publication with v. 5, no. 1, Mar. 1934.
- Ganadería: revista trimestral de veterinaria y zootecnia. Editada por la Escuela superior veterinaria de Córdoba. Córdoba, Argentine Republic. quar. 4^o il. año 1, no. 1, Jan./June, 1933.
- Outdoor Indiana. Indiana deptment of conservation. Fourth floor, State Library Building, Indianapolis, Indiana, mo. il. 4^o v. 1, no. 1, Feb. 1934.
- Rice news. Terrell-Brayton printing co., ltd. Lake Charles, La. mo. il. 4^o v. 1, no. 1, Nov. 1933. 50 cents a year \$1.00 three years.
- Social research; an international quarterly of political and social science. New school for social research, inc., Graduate faculty of political and social science. Editorial and business office, 66 West 12th Street, New York. Publication office, Camden, N. J. quar. 8^o, v. 1, no. 1, Feb. 1934. \$2.00 a year.

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CONGRESSES

The 16th International Congress of Agriculture will be held at Budapest, Hungary, June 14-20, 1934. The subjects for discussion will include agricultural education, cooperation, livestock production, the organization of the dairy industry, rural crafts and industries, rural economy, rural housing, viticulture, and the place of women in agriculture.

The date of the Sixth International Botanical Congress, which is to meet in Amsterdam, has been changed to September 2-7, 1935.

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LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING MAY 1934*

Alabama

- Foods for the family from the cotton acres rented to Uncle Sam. H. Kennedy.
(Ala. Poly. Inst. Ext. Circ. 140) Auburn, 1934.
Raising chicks. H. R. Bailey. (Ala. Poly. Inst. Ext. Circ. 141) Auburn, 1934.
Poultry demonstration: food preservation budgets for health and economy.
M. Garrett. (Ala. Poly. Inst. Ext. Circ. 142) Auburn, 1934.

Arkansas

- The preparation of fresh vegetables for the table. G. E. Conant. (Ark. Agr. Col. Ext. Circ. 313) Fayetteville, 1933.
Marketing sour cream. E. H. Reed. (Ark. Agr. Col. Ext. Circ. 314) Fayetteville, 1933.
Beef cattle production in Arkansas. M. W. Muldrow. (Ark. Agr. Col. Ext. Circ. 315) Fayetteville, 1933.
Growing peanuts in Arkansas. C. K. McClelland. (Ark. Agr. Col. Ext. Circ. 316) Fayetteville, 1933.
Bramble fruits. W. G. Amstein. (Ark. Agr. Col. Ext. Circ. 317) Fayetteville, 1933.
Turkey production in Arkansas. G. W. Knox, jr. (Ark. Agr. Col. Ext. Circ. 318) Fayetteville, 1933.
Marketing 4-H club products. E. H. Reed. (Ark. Agr. Col. Ext. Circ. 319) Fayetteville, 1933.
Suggestions for new farmers: miscellaneous extension circular designed to aid families moving back to farms in Arkansas. C. C. Randall [and others] (Ark. Agr. Col. Ext. Circ. 321) Fayetteville, 1933.
Use of land withheld from cotton production. C. C. Randall [and others] (Ark. Agr. Col. Ext. Circ. 324) Fayetteville, 1934.

California

- Nutrition program: yeast breads. (Calif. Agr. Col. Ext. H. D. 416) Berkeley, 1934.

Georgia

- Clothing for 4-H club girls, third year. F. A. McLanahan. (Ga. Agr. Col. Ext. Bul. v. 22, no. 438) Athens, 1933.
Outlook for Georgia agriculture in 1934. K. Treanor and W. A. Minor, jr. (Ga. Agr. Col. Ext. Bul. v. 22, no. 439) Athens, 1933.

Hawaii

- Commercial poultry production and marketing in Hawaii. H. L. Chung [and others] (Hawaii Univ. Agr. Ext. Bul. 20) Honolulu, 1934.

Indiana

- Beef calf club manual. H. F. Ainsworth. (Purdue Univ. Agr. Ext. Bul. 167, rev. ed.) Lafayette, 1934.
Feeding soybeans and soybean oilmeal on Indiana farms. (Purdue Univ. Agr. Ext. Bul. 180, rev. ed.) Lafayette, 1934.
Eggs for food. A. Beadle and M. Connor. Revised by A. Beadle. (Purdue Univ. Agr. Ext. Leaflet 136, 2d rev. ed.) Lafayette, 1934.
Sudan grass. R. R. Mulvey. (Purdue Univ. Agr. Ext. Leaflet 188) Lafayette, 1934.
Organization of an egg show. E. E. Schnetzler. (Purdue Univ. Agr. Ext. Leaflet 190) Lafayette, 1934.

*Prepared in the Office of Experiment Stations Library.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING MAY 1934
(continued)

Massachusetts

Tomato production in Massachusetts. G. B. Snyder. (Mass. State Col. Ext. Leaflet 51, rev.) Amherst, 1934.

Michigan

Michigan turkeys. J. M. Moore and A. M. Berridge. (Mich. Agr. Col. Ext. Bul. 137) East Lansing, 1934.

Replacement crops for Michigan's contracted acres. H. C. Rather and C. R. Megee. (Mich. Agr. Col. Ext. Bul. 139) East Lansing, 1934.

Minnesota

Improved varieties of farm crops recommended for Minnesota, 1934. (Minn. Univ. Agr. Ext. Folder 22, rev.) University Farm, St. Paul, 1934.

Montana

The Montana agricultural outlook. P. Carpenter. (Mont. Agr. Col. Ext. Circ. 65) Bozeman, 1934.

New York

Spinach production. F. O. Underwood. (N. Y. Agr. Col. (Cornell) Ext. Bul. 282) Ithaca, 1934.

North Dakota

Potato culture. A. F. Yeager. (N. Dak. Agr. Col. Ext. Circ. 122) Fargo, 1934.

Ohio

Apple scab and its control. A. L. Pierstorff. (Ohio Agr. Col. Ext. Bul. 139) Columbus, 1934.

Chinch bugs and their control. T. H. Parks. (Ohio Agr. Col. Ext. Bul. 144) Columbus, 1934.

Pruning fruit trees. F. H. Beach. (Ohio Agr. Col. Ext. Bul. 145) Columbus, 1934.

Oregon

Oregon spray recommendations for pests and diseases of stone fruits and nuts. (Oreg. Agr. Col. Ext. Bul. 470) Corvallis, 1934.

Tennessee

A farm and home program for Tennessee. (Tenn. Agr. Col. Ext. Pub. 179) Knoxville, 1934.

Utah

Practical and speedy cleaning methods. E. S. Barrows. (Utah Agr. Col. Ext. New Ser. Circ. 65) Logan, 1934.

Washington

Drying fruits and vegetables in the home. (Wash. State Col. Ext. Bul. 188) Pullman, 1934.

The 4-H garden club: instructions for projects A, B, C, and D. C. L. Vincent. (Wash. State Col. Ext. 4-H Club Circ. 25) Pullman, 1934.

Sunporches for poultry. J. S. Carver. (Wash. State Col. Ext. Poultry Pointers no. 15) Pullman, 1934.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING MAY 1934
(continued)

Wisconsin

- Liming Wisconsin soils. A. R. Whitson and C. J. Chapman. (Wis. Agr. Col. Ext. Circ. 266) Madison, 1934.
- 4-H corn club work. Projects 1 and 2. (Wis. Agr. Col. Ext. Spec. Circ. [un-numbered]) Madison, 1934.
- It pays to inoculate legumes. E. G. Hastings. (Wis. Agr. Col. Ext. Spec. Circ. [unnumbered]) Madison, 1934.
- Seeding alfalfa under the regulations of the corn-hog plan. L. F. Graber. (Wis. Agr. Col. Ext. Spec. Circ. [unnumbered]) Madison, 1934.
- White grub damage can be prevented and repaired. L. F. Graber and C. L. Fluke. (Wis. Agr. Col. Ext. Spec. Circ. [unnumbered]) Madison, 1934.

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CHECK LIST OF EARLY HORTICULTURAL LITERATURE

A Check List of Early Horticultural Literature has been in preparation in the Bureau of Plant Industry since 1915. This list was compiled by Miss Marjorie F. Warner, chiefly between the years 1915 and 1920, as a project of the Office of Botany. Recently it has been continued by Miss Warner in the Bureau Library and put into shape for possible future publication.

The check list includes 16th, 17th and 18th century works on horticulture in any of its aspects, and those containing appreciable contributions in that field or in that of the history of cultivated plants. It is not a bibliography in any exact sense, but aims to be fairly comprehensive (except possibly for English works) as a check list of titles and editions issued between 1500 and 1800, including more modern editions of these old works.

In connection with many titles, brief notes indicate doubtful or possible interpretations. Authorities are cited freely, and an attempt has been made to distinguish actual data from mere surmise, although all plausible guesses have been carefully set down. In some cases the titles of rare or specially important books are accompanied by more extensive critical notes, sometimes a mere digest of information drawn from various bibliographical authorities, sometimes based on a careful and far-reaching study of the book itself. Data on individual writers or persons interesting in connection with the history or introduction of cultivated plants have been incorporated. The whole undertaking aims at the presentation of source materials for the history of gardening on a broad scale, rather than the development of mere bibliography.

Greatly to the regret of her colleagues, Miss Warner will retire from the Department at the end of June, 1934, on account of the condition of her health. She hopes, however, to be able to do some additional work on the check list next winter.

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Miscellaneous:

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Bureau of Agricultural Economics.

The American farm problem: a selected list of books and pamphlets on the economic status of the farmer and measures for his relief since 1920. 1934. 13 p. Agricultural Economics Bibliography no. 52. (Compiled in the library of the bureau)

The dairy industry in the United States, 1932 and 1933. A selected list of references. Compiled by Margaret Harrison and Louise O. Bercaw, 1934. 23 p. (Compiled in the library of the bureau)

Farmers' strikes and riots in the United States, 1932-1933: a list of references. 1933. 30 p. (Compiled in the library of the bureau).

Foreign competition with American cotton: selected list of recent references (1932-1934) in English. Compiled by Emily L. Day, library specialist in cotton marketing. Mar. 29, 1934. 9 p.

Typewritten. May be borrowed for copying.

Japanese cotton industry; selected list of references. Compiled by Emily L. Day, library specialist in cotton marketing. Apr. 4, 1934. 4 p. Typewritten. May be borrowed for copying.

Periodicals relating to cotton received in the Division of Cotton Marketing. Mar. 16, 1934. 5 p. Typewritten. (Compiled in Division of Cotton Marketing library) May be borrowed for copying.

Bureau of Chemistry and Soils

Partial list of references on fruit, candied and glazed. Compiled by V. A. Pease. 5 p. (Issued by Food research division)

Bureau of Plant Industry.

A bibliography of plant genetics. Comp. by Marjorie F. Warner, assistant librarian, Martha A. Sherman, junior librarian, and Esther M. Colvin, junior librarian, Bureau of Plant Industry. April, 1934. 552 p. (Miscellaneous Publication No. 164.)

Compiled from entries on this subject contained in the catalog of the Bureau of Plant Industry Library, supplemented to some extent by articles from other sources. No attempt has been made to make it an exhaustive or systematic bibliography of the subject. The scope of the literature covered is comprehensive rather than definite, the main object of the list being to present the available material from a point of view which may serve the plant breeder and the student of genetics. The literature has been covered through 1930, so far as the publications of that year were received in the United States Department of Agriculture Library before the end of June, 1931. In addition to the subject index, which brings out the names of plants and crops, there is an author index which gives full names and enters the joint authors.

INTERNATIONAL BIBLIOGRAPHY OF AGRICULTURAL ECONOMICS

A review by Mrs. A. M. Hannay, Bibliographical Reference Assistant,
Library, Bureau of Agricultural Economics.

Dr. Sigmund von Frauendorfer, Librarian of the International Institute of Agriculture in Rome, presents in succeeding numbers of *Berichte über Landwirtschaft* issued by the Reichsministerium für Ernährung u. Landwirtschaft and beginning with Volume 17, No. 4, 1933, a bibliography of agricultural economic world literature. This is an ambitious undertaking and is designed to cover a field hitherto only spasmodically and more or less adequately handled. He finds himself faced at the outset by two major problems, the exclusion of the unessential, the valueless, and the irrelevant, on the one hand, and the inclusion of all that is pertinent and worthwhile on the other. He realizes the limitations of the individual mind in making such a choice, and admits that his decisions are open to criticism by the users of the bibliography.

His aim is to cover the field designated by the Germans as *Agrarpolitik*, which includes land settlement, agricultural credit, cooperation, insurance, trade, prices, taxation, agricultural statistics, etc.; farm management, including land valuation, labor, and bookkeeping; agricultural history; agricultural geography; legal questions connected with agriculture; agricultural education; and rural sociology.

All languages will be represented. But in the case of a few of the less well-known, such as Finnish, Hungarian, and some Slav languages, a careful selection of material has seemed advisable unless, as is often the case, the title and a summary of the contents are given in one of the generally known languages.

In addition to books, periodical articles are included which are original contributions, or which contain information of permanent interest to the economist or other interested expert. Information of an ephemeral nature, such as is contained in trade or crop reports is excluded. Tests of laws are not included as they are readily accessible in official gazettes and other sources.

Titles are used as they appear on the publication, and in the original language in the case of German, English, French, Dutch, Italian, and Spanish. Titles in other languages are translated into German and enclosed in brackets unless they appear on the publication in another easily read language.

The form of entry is that used in the library of the International Institute of Agriculture in which Anglo-American cataloguing rules prevail. Thus official publications appear under the name of the country, followed by that of the issuing bureau or office. In the case of periodical articles the source is given with volume, number, pagination, and date. Abbreviations of names of periodicals are used as approved by the International Institute of Intellectual Cooperation and the Deutscher Verband Technisch-Wissenschaftlicher Vereine.

The bibliography begins with 1932 and supplements the material for that year supplied in the *Bibliographische Umschau* last published in v. 17, no. 2 of *Berichte über Landwirtschaft*.

Realizing the importance of the classification of his subject, which covers the whole field of agriculture in all its economic aspects, the compiler has decided to base his division into subjects on a very detailed and comprehensive system of classification of the whole science of agriculture, which he has elaborated with a view to the later compilation of a bibliography of agricultural literature of world-wide scope. As this system of classification in three languages and with an alphabetical index of 7000 keywords has not yet appeared in its final form, the titles in the present list are not yet accompanied by their allotted symbols which will be supplied later. This bibliography is continued in succeeding issues of *Berichte über Landwirtschaft* of which volume 18, no. 2/3 and no. 3/4, 1933, have been received in the Library of the U. S. Department of Agriculture to date.

Editor's note: In order to make this important bibliographical publication easily accessible to all interested in the questions treated therein, it is published in a special edition which also contains the usual abstracts of the publications of the International Institute of Agriculture. The title of this new publication is "Mitteilungen aus dem Internationalen Landwirtschafts Institut in Rom" (Communications from the International Institute of Agriculture, Rome). It is published about eight times a year. The annual subscription price is RM 12. It is published by Paul Parey, Berlin.

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AGRICULTURAL LIBRARIES SECTION MEETING

Friday, June 29, 2:30 p. m.

Government policies in relation to agriculture.

Professor H. S. Patton, Head, Department of Economics, Michigan State College.

Round Table:

The use of books as collateral reading in courses of agriculture.

Miss Grace Barnes, Librarian, University of Maryland.

The use of bibliography in the agricultural field.

Mr. Charles H. Brown, Librarian, Iowa State College.

The use of books for research in a representative subdivision of agriculture. (Speaker to be announced)

Business meeting.

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SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
of the U. S. Department of Agriculture
received during May, 1934, exclusive of bibliographies* and current
issues of serials.**

America must choose. Address of Henry A. Wallace, May 3, 1934, at 10:30
p. m. over an N. B. C. network. 14 p.

Remarks of Henry A. Wallace before the U. S. Chamber of Commerce, Washington,
D. C., May 4, 1934, at 10 a. m. 7 p.

Working together in the corn-hog program. Remarks of H. A. Wallace delivered
in the Department of agriculture period of the National farm and home
hour, broadcast by 50 associate N. B. C. radio stations, May 10, 1934.
8 p.

Address by Rexford G. Tugwell before Consumers' League of Ohio, Cleveland,
Ohio, May 11, 1934. 17 p.

Address of Rexford G. Tugwell, Dartmouth College, April 26, 1934. 14 p.

Address by Rexford G. Tugwell, Oberlin College, May 12, 1934. 14 p.

Relief and construction. Address by Rexford G. Tugwell before the
National conference of social workers, Kansas City, Mo., May 21, 1934.
18 p.

The social responsibility of technical workers. Address by Rexford G.
Tugwell before organizations of government employees, Washington, D. C.,
May 1, 1934. 15 p.

Wine, women, and the new deal. Address of Rexford G. Tugwell before the
Women's national democratic club at its luncheon, Feb. 5. 8 p.

Agricultural Adjustment Administration

The computation of acreage under production control contracts. By S. P.
Lytle. 1934. 14 p. (Issued by Commodities division, Wheat section)

Crop production control and its relation to wild life. By J. F. Cox. 2 p.
Address delivered at National convention, Izaak Walton league of
America, Chicago, April 19, 1934.

The dangers ahead. By D. P. Trent, assistant director of commodities
division. 10 p.

Address before the Oklahoma cotton growers' cooperative association
at Oklahoma City, May 28, 1934.

Human problems in acreage reduction in the south. By Calvin B. Hoover.
1934. 19 p.

*Bibliographies included in general list of bibliographies on page 190.

**For a list of the principal series issued regularly see v. 4, no. 1-2,
page 347.

Agricultural Adjustment Administration
(continued)

The measurement of fields under production control contracts. By S. P. Lyle. 1934. 9 p. (Issued by Commodities division, Wheat section)

Memorandum regarding visit to southern states in the interest of rural rehabilitation. By J. Phil Campbell. 1934. 6 p. (Issued by Replacement crops section)

Woman's part in a better America. 19 p.
(Issued by the Consumers' counsel in cooperation with the Bureau of agricultural economics, Bureau of home economics, and Bureau of labor statistics)

Bureau of Agricultural Economics

List of manufacturers of fruit and vegetable hampers and baskets and manufacturers' identification numbers. Comp. by Gladys Burrows. 1934. 20 p. (Issued by Division of fruit and vegetables)

Bureau of Agricultural Engineering

Ditch cleaning experiments in Delaware. By W. D. Ellison. 6 p.

Magazines contributing most frequently to the index of current literature in agricultural engineering. 1934. 17 p.

Bureau of Biological Survey

Final report of the Civil works administration project F-17 "Rodent control in connection with typhus control". By James Silver, regional supervisor. 1934. 12 p.

Cooperating with the U. S. public health service and the State health departments of Alabama, Georgia, and Texas.

North America's waterfowl problem. 2 p. (Prepared in the Division of biological investigations)

Bureau of Chemistry and Soils

Notes on wine. By Harry E. Goresline. 1934. 2 p. (Issued by Food research division)

Bureau of Dairy Industry

Information regarding packaging and curing cheddar cheese in cans. 1934. 2 p.

Proving dairy sires in dairy herd-improvement associations by the lactation records of the daughters and their dams. By J. F. Kendrick. 1934. 22 p. B.D.I.M.623. (Issued by Division of dairy herd-improvement investigations).

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
(continued)

Extension Service

Sources of recreational material for use at 4-H club meetings, camps, entertainments, musical events, etc. 1934. 10 p.

Forest Service

Forest truck trail handbook. 1934.(p. 100-733)

Thirteenth annual report of the Southern forest experiment station. 1933. 39 p.

Suggestions for forestry and tree planting programs for use of four-H club, boy scout, school and arbor day meetings, and other assemblies. 1934. 21 p.

Library

Statement on the centralization of the library collections. By Claribel R. Barnett, Librarian, U. S. Department of Agriculture. Apr. 13, 1934. 11 p.

Bureau of Plant Industry

Do the phases of the moon affect plant growth? By J. H. Beattie. Apr. 1934. 1 p. (Issued by Division of fruit and vegetable crops and diseases)

Results from cooperative wheat varietal experiments in the western region in 1933 with averages for 1931 to 1933. 1934. 74 p. (Issued by Division of cereal crops and diseases)

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LOST BOOKS

The books listed below cannot be found. It will be appreciated if anyone having information in regard to them will notify the Loan Desk of the main Library:

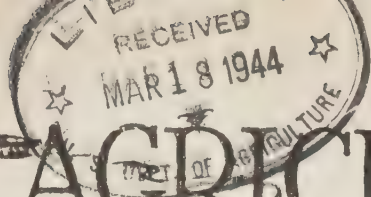
Annales de chimie analytique. v. 19. copy 2.

Journal für praktische chemie. 1908. v. 77.

Journal of dairy science. 1922. v. 5.

Soil science. v. 24. copy 2.

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PRINCIPAL LIBRARY ACCESSIONS

Advertising

RORTY, JAMES. Our master's voice: advertising. New York, Day, 1934.

Apiculture

HERCE, PEDRO. Apicultura. Madrid, Marin y Campo, 1933. (Fuentes de riqueza, biblioteca agropecuaria dirigida por José M. a de Soroa. no. 9)

Bacteriology

MOLDAVAN, ANDREW. Introduction to food bacteriology. Lancaster, Pa. Science press, 1934.

Biography

KUHNER, MARTIN. Pflügende hand forschender geist. Berlin, Parey. 1934.

Biology

SHULL, A. F., LARUE, G. R., and RUTHVEN, A. G. Principles of animal biology. Ed. 4. McGraw-Hill, 1934.

Botany

- CROZIAT, L. M. C. De euphorbio antiquorum atque officinarum. New York, 1934.
- EVANS, A. W. A revision of the genus Acromastigum. The Hague, Nijhoff, 1934. (Annales bryologici. Supplementary v. 3)
- KURZ, HERMAN, and LITTLE, T. M. Liverworts of north and central Florida. Tallahassee, Fla., 1933. (Bulletin, Florida State college for women. v. 26, no. 3)
- NISSEN, CLAUS. Botanische prachtwerte, die blütezeit der pflanzenillustration von 1740 bis 1840. Wien. Reichner, 1933. Sonderdruck aus dem "Philobiblon" jahrg. 6, nr. 7-9.
- REVISTA SUDAMERICANA DE BOTANICA. v.1, no.1; Feb. 1934. Montevideo, 1934.
- STEHLI, G. J. Pflanzen auf insektenfang. Stuttgart. Franck, 1934. (Kosmos-bändchen [bd. 134])

Cereals, Flour-milling

- CONI, E. A. El proceso economico de un pedazo de pan. Buenos Aires, 1933. (Confederación argentina del comercio, de la industria y de la producción. Estudio de problemas nacionales. no. 38)
- ITALY. ISTITUTO NAZIONALE DI GENETICA PER LA CEREALICOLTURA, ROME. Origini, saviluppi, lavori e risultati. Roma, 1932.
- MALLOCH, J. G. Canadian flour; how it helps the baker's profit. Issued by the Commercial intelligence service. Ottawa [1933?] (Dept. of trade and commerce)

PRINCIPAL LIBRARY ACCESSIONS

(continued)

Conservation

INTERNATIONAL CONFERENCE FOR THE PROTECTION OF THE FAUNA AND FLORA OF AFRICA, LONDON, 1933. Agreements concluded. London, H. M. Stationery off., 1933.

Cookery

COOLEY, E. H., comp. Choice recipes for North Atlantic sea foods. Boston, Federated fishing boats of New England and New York, 1934.

Economics

CANADA. DEPT. OF AGRICULTURE. Une analyse économique des opérations de fromageries dans la province de Québec. Ottawa, 1933.

COLUMBIA UNIVERSITY. TEACHERS COLLEGE. National crisis series. [Adult series] New York city, 1933. Contents. The Farm act of 1933, by E. DeS. Brunner.

In relief of debtors, by E. de S. Brunner. Unemployment relief and public works, by L. C. Marshall. The changed scene in industry and transportation, by L. C. Marshall. Funds and the financial system, by L. C. Marshall.

ECONOMIC ASSOCIATES. The world cocoa position, 1913 to 1934. New York, 1934.

----- The world cotton position, 1893 - 1934. New York, 1934.

----- The world rubber position, 1913 to 1934. New York, 1934.

----- The world wheat position, 1893 - 1934. New York, 1934.

GOLD COAST (COLONY) CENSUS OFFICE. The Gold Coast, 1931. A review of conditions as compared with those of 1921. Accra [1932?] And Appendices containing comparative returns and general statistics of the 1931 census. Accra, 1932.

HEVESY, PAUL DE. Le problème mondial du blé. Paris, Alcan, 1934.

IRISH FREE STATE. PIG INDUSTRIES TRIBUNAL. Report on pig production in Saorstát Bireann and the industries and trades. Dublin, 1934.

LATTEMANN, WILHELM. Zusammenhänge zwischen industrie u. landwirtschaft an nordrönde des Harzes in vergangenheit und gegenwart. Oldenburg i. O., Stalling, 1933. (Wirtschaftswissenschaftliche gesellschaft zum studium Niedersachsens e.v. Reihe A der Veröffentlichungen. Beiträge, hft. 23)

NORTHEASTERN POULTRY PRODUCERS COUNCIL. MARKETING COMMITTEE. Egg legislation in the northeastern states. [n. p.] 1934. Mimeographed.

NOURSE, E. G. America's capacity to produce. Washington, Brookings institution 1934. (Institute of economics of the Brookings institution. Publication no.55)

PACIFIC NORTHWEST REGIONAL PLANNING CONFERENCE. Proceedings, 1st; 1934. Portland, Ore., 1934.

ROBERTSON, C. J. World sugar production. London, Bale, sons & Danielsson, 1934.

SHAW, A. M. Alternatives to grain growing in the Prairie provinces. An address. Regina, Sask., Commercial printers, 1934.

SIMS, N. Le R. Elements of rural sociology. Rev. ed. New York, Crowell, 1934.

THOMAS, P. J. The problem of rural indebtedness. Madras, Diocesan press, Vopery, 1934.

TODD, J. A. The marketing of cotton from the grower to the spinner. London, Pitman, 1934.

WALLACE, H. A. Statesmanship and religion. New York, Round table press, 1934.

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Engineering, Building

- SPAIN. DIRECCIÓN GENERAL DE GANADERÍA E INDUSTRIAS PECUARIAS. SECCIÓN DE LABOR SOCIAL. Concurso de construcciones rurales. Madrid, 1932.
- YU, H. Stresses in statically indeterminate structures. Ed. 1. Wuchang, China, H. Yu, National Wuhan university, 1933.

Fertilizers

- COLLINGS, G. H. Commercial fertilizers. Philadelphia, Blakiston, 1934.
- LING, A. W., MUIR, W. R., and NUTT, J. D. The Longloot experiments, 1927-1931. London, Mendip press [1934?]

Home Economics

- WOOD, Mrs. L. R. The housewife's handbook. Daytona Beach, Fla., The Housewife's handbook, 1933.

Horticulture

- BEAN, E. B. The practical garden notebook. Chicago, E. B. Bean, 1934.
- JOINT COMMITTEE OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIALS AND THE HIGHWAY RESEARCH BOARD. Report on roadside development. Washington, National research council, 1933. Mimeoographed.
- LOSEE, D. W. Profitable mushroom culture. Buffalo, Ledon, 1934.
- MURRAY, C. K. Greenkeeping in South Africa. Athlone, S. A., "South African golf," 1932.

Library Economy

- FAIR, E. H. Countrywide library service. Chicago, American library association, 1934.

Poultry

- INSTITUTE OF AMERICAN POULTRY INDUSTRIES. A preliminary review of the field of research in eggs and poultry. Chicago, 1933.

Reference Books

- BEZEMER, T. J. Land-, tuin-en boschbouwkundig woordenboek in het Nederlandsch, Fransch, Engelsch en Duitsch. Arnhem, Slaterus, 1934.
- INTERNATIONAL INSTITUTE OF AGRICULTURE. Les institutions de laiterie dans le monde. International directory of dairying institutions. Rome, 1934.

Technology

- FEIKER, F. H. The training of men for the textile industry. Washington, J. D. Milans sons, 1934.
- RAYON AND SYNTHETIC YARN HANDBOOK. New York, Rayon publishing company, 1934.
- TEXAS GULF SULPHUR COMPANY, INC. Sulphur. New York, 1934.

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Town Planning

TEANECK, N. J. TOWNSHIP PLANNING BOARD. The Teaneck plan. Hackensack, 1933.

Zoology

ALLGEN, CARL. Freilebende nematoden aus dem Trondhjemsfjord. 's-Gravenhage, Nijhoff, 1933. (Capita zoologica. deel 4, afl.2)

KLOTS, A. B. Directions for collecting and preserving insects. Rochester, N. Y., Ward's natural science establishment, 1932.

Theses

BIBERFELD, ERICH. Die frage der intensivierung der deutschen landwirtschaft nach dem kriege. Dresden, 1933. Inaug.-diss. Leipzig.

BICANSKI, Stojan. Die osteuropäische landwirtschaftskrise. Wien, 1933. Diss. Wien. Auszug.

BIENERT, WALDEMAR. Böhmens landwirtschaftliche klimatographie. Fulnek in Mähren, 1932. Inaug.-diss. Breslau.

CAILLE, R. K. Resistant behavior of preschool children. New York City, Bureau of publications, Teachers college, Columbia university, 1933. (Child development monographs, no. 11) Thesis. Columbia university.

CHAIKELIS, A. S. The effect of insulin on the glucose-chloride relationship and anhydremia in the blood of rabbits. New York, 1933. Thesis (Ph.D.) Columbia university.

COONS, K. W. The demethylation of ring alkylated phenols. Goodland, Kans., 1932. Thesis (Ph.D.) Columbia university.

CROSEN, R. G. The development of a new spectrographic method of quantitative chemical analysis and its application to the determination of chromium in certain human tumors. New York City, 1933. Thesis (Ph.D.) Columbia university.

DEHNE, ERNST. Der heuhandel in Deutschland unter besonderer berücksichtigung der gütteförderungen für wiesenheu. Bottrup i. W., 1933. Inaug.-diss. Landw.hochschule, Berlin.

ENVER, ISMAIL. Beitrag zur kenntnis der einwirkung verschiedenfach entfetteter sojaschrote auf das blutbild bei haustieren. [n.p.] 1933. Inaug.-diss. Tierärztl. hochschule, Berlin.

FOURIAN, V. G. Catalytic dehydration of ionone and related compounds. New York City, 1933. Thesis (Ph.D.) Columbia university.

FUCHS, H. O. Über die einflüsse von schwingungsbremsen auf die federung von kraftwagen. Berlin, 1933. Diss. Tech.hochschule Karlsruhe.

GALETA, H. L. The influence of air upon cream deterioration. LaFayette, Ind., 1931. Thesis. Purdue university. Typewritten.

GION, OTTO. Zur therapie der streptokokkenmastitis. Giessen, 1932. Diss. Giessen.

GOMOLKA, KARZELL. Beitrag zur antigengewinnung für die aktive immunisierung gegen maul-und klauenseuche mittels abgetötetem virus. Berlin, 1931. Inaug. diss. Tierärztl.hochschule, Berlin.

GREENSPAN, JOSEPH. The kinetics of a general ionic reaction: the saponification of acetylated hydroxy acids. New York City, 1933. Thesis (Ph.D.) Columbia university.

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- GRUNER, MAX. Biologische untersuchungen an schaumcikaden. (Gatt. Aphrophora Germ. und Philaenus Stål.) Berlin, 1901. Inaug.-diss. Berlin.
- HALL, G. N. A. Investigations on rinderpest immunization. Zurich [1932?] Diss. Zurich.
- HAUWAERT, M. A. van. A quantitative study of the factors influencing the removal of loosely bound nitrogen from eggs. New York city, 1933. Thesis (Ph.D.) Columbia university, 1933.
- HERING, P. E. The insect fauna of the mustard family: Cruciferae. Ithaca, N. Y., 1932. Abstract of thesis (Ph.D.) Cornell university, 1932.
- HILDEBRAND, J. G. The constitution of lactams resulting from the Bockmann transformation of certain cyclic aliphatic ketoximes. New York City, 1933. Thesis (Ph.D.) Columbia university.
- KATTHAGE, HERBERT. Die bedeutung der ländlichen siedlung für die industrie landwirtschaftlicher maschinen und geräte. Emsdotten (Westf.), 1932. Inaug.-diss. Köln.
- KROLIK, FRITZ. Ueber die ablagerungen von hämosiderin in der leber und milz des kuhnes unter normalen und einigen pathologischen verhältnissen. Berlin, 1932. Inaug.-diss. Tierärztl.hochschule, Berlin.
- MACGILLAVREY, DONALD. The concentration of hydrogen of atomic weight two by diffusion in fast streaming vapors. New York city, 1933. Thesis (Ph.D.) Columbia university.
- MOSSMAN, D. D. Bergamot oil, a monograph, including original contributions concerning the analysis of the oil. New York city, 1932. Thesis (Ph.D.) Columbia university.
- NEUHAUSER, JOSEPH. Fettgewebs-und pankreas-nekrose bei karnivoren. Giessen i. Hessen, 1931. Inaug.-diss. Giessen.
- NIENHAUS, ALOYS. Die produktions-und absatzverhältnisse der milchwirtschaft in den rechtsrheinischen höhengebieten Westdeutschlands. Bochum-Langendreer, 1933. Inaug.-diss. Landw.hochschule, Bonn-Poppelsdorf.
- NOBLE, G. L. History and development of the 4-H club movement. Ames, 1933. Thesis. Iowa state college. Typewritten.
- PAGE, J. W. The concentration and partial fractionation of the vitamin G factors of milk. New York city, 1933. Thesis (Ph.D.) Columbia university.
- PFLUGER, E. L. The rate of addition of methyl esters to trimethylamine. [New York] 1933. Thesis (Ph.D.) Columbia university.
- PLATE, RODERICH. Die getreidekrisen in der zweiten hälfte des 19. jahrhunderts und in der gegenwart. Berlin, 1933. Inaug.-diss. Landw.hochschule, Berlin.
- POTGIETER, MARTHA. The energy cost of some forms of physical activity of nine-year-old girls. New York city, 1933. Thesis (Ph.D.) Columbia university.
- RAJNFELD, SEWERYN. Studie di alcuni problemi elastici a due dimensioni. Milano, 1933. Tesi. Politecnico federale svizzero in Zurigo.
- ROBINSON, E. A. Substituted 5, 6- benzocinchonic acids. New York city, 1933. Thesis (Ph.D.) Columbia university.
- ROETTIG, KURT. Untersuchungen über die wirkung von kupfersalzen auf strongyliden, trichinen und bakterien. Giessen, 1933. Diss. Giessen.
- RUHKOPF, HANS. Ueber den antineuritische vitamin aus hefe. Göttingen, 1933. Inaug.-diss. Göttingen.
- SALZMAN, G. M. The action of aqueous alkali on starches and their amyloses. New York city, 1933. Thesis (Ph.D.) Columbia university.
- SAUNDERS, G. B. A taxonomic revision of the meadowlarks of the genus Sturnella vicillot and the natural history of the eastern meadowlark Sturnella magna magna (Linnaeus) Ithaca, N. Y., 1932. Abstract of thesis (Ph.D.) Cornell university, 1932.

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(continued)

- SCHOCH, T. J. Studies on the nature of potato starch. New York city, 1933. Thesis (Ph.D.) Columbia university, 1933.
- SHERIDAN, C. O. Estudio analitico de Crataegus mexicano. Mexico, 1932. Tesis. Univ. nac. autonoma, Mexico.
- SHOTWELL, J. S. G. A new process for the moisture control of paper. New York city, 1933. Thesis (Ph.D.) Columbia university.
- STRADTMANN, HERMANN. Untersuchungen über den sitz der keime bei der streptokokken-und pyogenes-mastitis des rindes. Remscheid, 1931. Inaug.-diss. Tierärztl.hochschule, Hannover, 1931.
- STRAUBE, K. H. Untersuchungen über die beeinflussung des phosphorspiegels gesunder und staupekranker hunde durch "Staupe-immun-serum Nussbag", Berlin, 1931. Inaug.-diss. Tierärztl. hochschule, Berlin.
- TODHUNTER, E. N. The determination of vitamin A values by a method of single feedings. New York city, 1933. Thesis (Ph.D.) Columbia university, 1933.
- TREBICKÝ, JAN. Die Alpwirtschaft der Tschechoslowakei unter berücksichtigung ihres zusammenhanges mit der heutigen landwirtschaftlichen organisation des staates. Kolin, 1933. Genehmigte abhandlung. Tech.hochschule, München.
- TUCKERMANN, OTTO. Die rationalisierung des mittelbaues im ländlichen genossenschaftswesen Niederschlesiens. Würzburg, 1933. Inaug.-diss. Landw.hochschule, Bonn-Poppelsdorf.
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Indiana

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Duck raising and management. R. E. Roberts. (Purdue Univ. Agr. Ext. Bul. 201) Lafayette, 1934.
Milk and dairy products. M. Connor and A. Beadle. Revised by A. Beadle. (Purdue Univ. Agr. Ext. Leaflet 135, 2d rev. ed.) Lafayette, 1934.
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How to produce good cream. V. C. Manhart. (Purdue Univ. Agr. Ext. Leaflet 191) Lafayette, 1934.

Kentucky

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Massachusetts

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Give your baby a chance; diet for the pregnant mother. M. E. Foley. (Mass. State Col. Ext. Leaflet 121, rev.) Amherst, 1934.
Keep them growing; diet for the adolescent. M. E. Foley. (Mass. State Col. Ext. Leaflet 130, rev.) Amherst, 1934.

Michigan

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Minnesota

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New Mexico

- Butterfat production; factors affecting net returns in eastern New Mexico.
E. E. Anderson. (N. J. Agr. Col. Ext. Circ. 128) State College, 1934.

New York

- Controlling stomach and intestinal parasites of sheep. J. P. Willman and
W. T. Grams. (N.Y. Agr. Col. (Cornell) Ext. Bul. 283) Ithaca, 1934.
- The care of rabbits. W. J. Hamilton, jr. (N. Y. Agr. Col. (Cornell) Ext.
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- Ornamental trees for New York State; their landscape value and care. R. W. Curtis
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North Dakota

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State College, 1934.
- Types and breeds of sheep. W. L. Henning and W. B. Connell. (Pa. State Col.
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South Dakota

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Texas

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Washington

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Treatment of potato tubers for control of diseases. L. K. Jones. (Wash. State Col. Ext. Bul. 191) Pullman, 1934.
Production of high quality milk and cream. C. C. Prouty. (Wash. State Col. Ext. Bul. 192) Pullman, 1934.
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Wisconsin

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Strawberry culture in Wisconsin. J. G. Moore. (Wis. Agr. Col. Ext. Circ. 268) Madison, 1934.

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THE FIRST BALDWIN APPLE TREE

Who discovered the first Baldwin apple tree was a mooted question for many years. A reminder of this question was brought to light recently when a map of Wilmington, Massachusetts, showing the site of the original tree was found among the Baldwin papers of the Baker Library. The Bulletin of the Business Historical Society for June, 1934, vol. 8, no. 4, gives a map of the original Baldwin apple tree and a brief sketch about it.

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LIBRARY OF THE INTERNATIONAL INSTITUTE OF AGRICULTURE, ROME

The following article from Rome, Italy, appeared in the June 6, 1934, issue of the New York Evening Post:

"With American ideas and an American-trained director, the largest agricultural library in the world, with the exception of that belonging to the United States Department of Agriculture, has been housed in a magnificent building here. The library, consisting of 265,000 volumes, booklets and manuscripts, is under the direction of Dr. Sigmund von Frauendorfer, a German doctor of philosophy, who received his library training at the University of Illinois, New York State University at Albany, the Department of Agriculture Library at Washington and the public libraries of Chicago and New York.

"The collection was started through donations given by the Rockefeller Education Board. The new building, which was dedicated at the end of May, was built by the Royal Commission of the International Institute of Agriculture, and is part of the institute. It has risen next to the institute's sumptuous building in the Umberto Park.

"All the latest American bibliothecal methods have been installed in the new building, Dr. Frauendorfer told the Associated Press, including a thorough card index system, modern metal shelving, a book elevator and a means of keeping ventilation, temperature and humidity always at the same degree.

"The library had its beginning in 1909 but its modern effective period dates from 1925 when an American librarian, James Goodwin Hodgson, was brought over to reorganize it."

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A BRITISH BIBLIOGRAPHY AND INFORMATION SERVICE

An effort is now being made to set up a central bibliography and information service for agriculture by the League of Science (British Empire Section), 27, Willow Road, London, N.W.5. One library, the Science Library at the Science Museum, South Kensington, possesses technical literature to the extent of 100,000 books on agriculture and 2,000 of the world's journals on the subject, and the new supplementary bibliography is to be set up at this centre, provided the scheme is developed under the control of the chief librarian. The extension would be met, it is thought, by an annual sum of about £2,000, and as the bibliography would become the property of the Science Museum in due course, the scheme has a national character. It will be placed in the hands of an independent agricultural bibliography committee, members of which would be appointed by the leading institutions supporting it. Subscribers are to be asked to pay 10s. a year minimum, which it is estimated would be sufficient if 2,000 join and agree to pay for a minimum period of three years. It is hoped to set up a guarantee fund. Mr. W. P. Dreaper is the organising director and secretary at the address quoted above. (The Farmer & Stock-Breeder and Agricultural Gazette, London, vol. XLVIII, new series, no. 2331, June 11, 1934, p. 1351)

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Harvard University. Albert Russel Erskine bureau for street traffic research. Street traffic bibliography, 1920-1933. Cambridge, 1933.

A London bibliography of the social sciences; being the subject catalogue of the British library of political and economic science at the London school of economics, the Goldsmith's library of economic literature at the university of London, the libraries of the Royal statistical society and the Royal anthropological institute, and certain special collections at University College, London, and elsewhere. First supplement containing the additions to the libraries named above, 1st June, 1929 to 31st May, 1931. Compiled under the direction of the libraries of the British library of political and economic science, by Marjorie Plant. 596 p. London, 1934. (Studies in economics and political science, ed. by the director of the London school of economics and political science, no. 8)

Schreiner, Oswald, and Deemer, R. B. Bibliography of American soil and fertilizer research for 1932. Washington, D. C., Pan American Union, 1933. Mimeographed.

U. S. Department of commerce. Bureau of foreign and domestic commerce. Bibliography of publications on air conditioning. 3d ed. May 1934. 45 p. This bibliography was prepared under the direction of G. Reed Salisbury of the Bureau of Foreign and Domestic Commerce in response to the current popular demand for information covering air conditioning, humidification, de-humidification, insulation, refrigeration, and ventilation. Miss Perle Knight is responsible for the major part of the research necessary to complete this work. - Foreword.

U. S. Federal emergency relief administration. Research library. Non-institutional relief measures of the States and Territories. Comp. by Adelaide Hasse. Alabama. April-May 1934. 14 p.

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Prepared in the U.S. Department of Agriculture:

Bureau of agricultural economics:

Futures trading; selected references, including United States congressional documents, on futures trading in commodities, with particular reference to grain and cotton. Comp. by C. Louise Phillips, Scientific assistant, Grain division. Apr. 1934. 46 p. mimeogr.

Land utilization; a list of selected references compiled in the Division of land economics. 1934. 10 p.

Bureau of chemistry and soils:

Publications on sweetpotato starch. 1934. 1 p. Issued by Carbohydrate division.

Forest service:

List of publications on the growth structure and identification of wood. 1934. 36 p. Issued by Forest products laboratory in cooperation with the University of Wisconsin.

BIBLIOGRAPHIES

Prepared in the U. S. Department of Agriculture:

Forest Service (continued)

List of publications on boxing and crating. 1934. 11 p. Issued by Forest products laboratory in cooperation with the University of Wisconsin.

List of publications on glue and plywood. 1934. 9 p. Issued by Forest products laboratory in cooperation with the University of Wisconsin.

List of publications on wood finishing subjects. 1934. 10 p. Issued by Forest products laboratory in cooperation with the University of Wisconsin.

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SUMMARY REPORT OF BUREAU OF STANDARDS RESEARCH ON PRESERVATION OF RECORDS

Under the title "Summary report of Bureau of Standards research on preservation of records", the Bureau of Standards, U. S. Department of Commerce, has issued a report (Bureau of Standards Miscellaneous Publication no. 144) summarizing the results of systematic studies, extending over a period of four years, of the problem of preserving valuable records. The report states that "A survey of material stored in libraries and of the conditions surrounding it showed that many valuable publications were badly deteriorated. Light, adverse temperature and humidity, acidic pollution of the air, and low-grade paper were indicated as the main deteriorative agents. Through exposures of papers to sulphur-dioxide gas, with measurement of the weakening effect, and the testing of papers from old books that had been stored in various localities, this product of combustion was proved a potential destroyer of all classes of papers. Experimental tests in a library demonstrated that this acidic gas can be completely removed by washing the air with alkaline wash water. The destructive effect of light is emphasized by data showing its rapid weakening effect on all grades of papers. In discussion of the ventilation of libraries, the removal of dust and the maintenance of a medium degree of temperature and humidity are recommended. Carefully controlled air conditioning is desirable. Extensive tests of old newspapers and books showed the deteriorative effect of crude fibers, such as ground wood; as papers containing them were generally in bad condition as contrasted with the generally good condition of papers composed of chemically purified fibers. A classification of book papers for record use has been suggested. An outline is given of information developed elsewhere on protection against insects, including the 'bookworm', which is particularly difficult of extermination. Study of protective coverings for papers indicated that both Japanese tissue and transparent cellulose acetate sheeting are quite suitable. The ordinary acid types of writing inks having been found very deteriorative to paper, the organic chemistry section of the Bureau developed an alkaline ink that is apparently harmless. Permanent photostat paper is recommended for reproducing records of perpetual value." The series of investigations was made with the assistance of a fund granted for the purpose by the Carnegie Foundation to the National Research Council.

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SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

of the U. S. Department of Agriculture
received during June, 1934, exclusive of bibliographies* and current
issues of serials.**

Drought relief. Address of Henry A. Wallace, Bismarck, N. D., June 6,
1934. 12 p.

The responsibilities of partnership. Address of Rexford G. Tugwell before
the Iowa State bankers association, Des Moines, Iowa, June 27, 1934.
25 p.

Agricultural Adjustment Administration

The AAA amendments. Address over National broadcasting system, June 11,
1934. 6 p.

The American spirit and the American way. A radio talk by Chester C.
Davis, broadcast in the National Grange program June 16, 1934. 5 p.

The cotton belt's comeback under agricultural adjustments. By C. A. Cobb.
1934. 9 p. (Discussion statement no. 2)

Dairy production adjustment, why and how? An address by H. R. Tolley at
the eighth annual New England Institute of cooperation, June 21, 1934,
Burlington, Vermont, 12 p.

The farmers run their show. By Chester C. Davis. 1934. 18 p.

The place of the Agricultural adjustment administration and cooperative
dairy organizations in the dairy industry. Address before the New
England Institute of cooperation, City Hall auditorium, Burlington,
Vermont, June 21, 1934. 9 p.

Suggested method in measuring and calculating the acreage of fields under
tobacco, cotton and corn-hog contracts. 1934. 8 p.

Tobacco, this year and five years from now. Address by J. B. Hutson,
chief of Tobacco section, before the Annual convention of Tobacco
warehousemen at Asheville, N. C., June 14, 1934. 11 p.

Bureau of Agricultural Economics

The drought situation, June 1, 1934. 5 p. Based upon information
furnished by the Bureau of agricultural economics, the Weather bureau,
and the Bureau of agricultural engineering.

Farm real-estate taxes in 16 states decrease from 1932 to 1933. 2 p.

List of manufacturers of fruit and vegetable hampers and baskets and
manufacturers' identification numbers. May 1934. Compiled by Gladys
Burrows. 20 p. (Issued by Division of fruits and vegetables.)

*Bibliographies included in general list of bibliographies on page 221-222.

**For a list of the principal series issued regularly see v. 4, no. 1-2,
page 347.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Agricultural Economics
(continued)

Origin-verification of seed explained 1934. 11 p. (Issued by Hay, feed and seed division)

Review; marketing Louisiana strawberries, 1934 season. By R. L. Sutton. 1934. 4 p. (Issued by Division of fruits and vegetables)

Review; marketing western and central New York carrots, season 1933-34. 4 p. (Issued by Division of fruit and vegetables)

Stocks of leaf tobacco owned by manufacturers and dealers, Apr. 1, 1934. 9 p. (Issued by Tobacco section)

What price soybeans? By J. E. Barr. 5 p.

Bureau of Agricultural Engineering

Some mechanical elements involved in good ginning. By Charles A Bennett. 16 p. Paper presented before Georgia ginners' association, Atlanta, Ga., May 24, 1934.

Bureau of Animal Industry

Brooding chicks in tents. May 1934. 5 p.

Experiments in methods of producing beef calves. A preliminary report. By W. H. Black and E. W. McComas. 1934. 4 p. (Issued by Animal husbandry division)

Feeding puppies. By S. W. Speelman. June 1934. 3 p.

Bureau of Biological Survey

Directions for setting foothold trap for capturing animals uninjured. By Vernon Bailey. 3 p. June 1934. Leaflet Bi-1332.

The nation's program of wild life conservation through forestry in the Central states. An address by W. C. Henderson before the fifth annual conference of the Central states forestry congress, Knoxville, Tenn., May 29, 1934. 6 p.

Planting for wild life in the corn belt. By W. L. McAtee. 2 p. May 1934.

Planting for wild life in the cotton belt. By W. L. McAtee. 2 p. May 1934.

Recent developments in wild-life conservation. Address by W. C. Henderson, at the Fourteenth conference of the Western association of State game and fish commissioners, Portland, Oregon, June 15, 1934. 8 p.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
(continued)

Bureau of Chemistry and Soils

Devil's shoestring (Cracca Virginiana L.), a potential source of rotenone and related insecticides. By R. C. Roark. 1934. 12 p. (Issued by Insecticide division)

Color standards for grading maple sirup. 1934. 1 p.

Methods of analyzing white sugars, massecuites and juices. Compiled by J. A. Ambler. 1934. 21 p. (Issued by Carbohydrate division)

Bureau of Dairy Industry

The Holstein-Friesian herd of the U. S. Bureau of dairy industry at Beltsville, Maryland. 1934. 7 p.

Forest Service

Painting exterior woodwork. By F. L. Browne. 1934. 5 p. (Issued by Forest products laboratory in cooperation with the University of Wisconsin, Madison, Wis.)

Bureau of Home Economics

Canning unchilled meat. Supplement to mimeographed circular entitled "Methods of canning beef and veal in community canning centers", June, 1934. 2 p.

Community canning centers. By Mabel C. Stienbarger, Bureau of Home Economics, and Miriam Birdseye, Office of Cooperative Extension Work. Rev. May 1934. 21 p.

Methods of canning beef and veal in community canning plants. June 1934. 7 p.

Supplies and equipment that aid home sewing. 1934. 8 p.

Bureau of Plant Industry

Making sirup from sugar beets. 1934. 5 p.

Weather Bureau

Instructions for the preparation and issuance of airways forecasts. 1934. 14 p.

Instructions for transmitting airplane weather observations via teletype and radio. 1934. 3 p.

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THE RESPONSE OF SCIENCE TO AGRICULTURE*

By Dr. J. Christian Bay, Librarian, John Crerar Library

It is quite possible that the first attempts of infusing scientific ideas into the practice of agriculture may be found in the ancient wisdom of the Far East. Some historians of agriculture think so, but the science of the orient is not the science of the Western World, nor even that of the period of the Renaissance. Scientific ideas formulated in classic times are very difficult to follow today, not only because the concepts were entirely different from ours, but also because the language is almost unintelligible to us. For the purpose of this meeting, I must content myself with touching the high spots in the attempts of science to meet the demands of practical agriculture, and in order to make a quite orthodox start in my selection from the immense material which has been accumulated for ages, I shall first point to the doctrine of vegetation accumulated by Aristotle.

The main problem in agriculture from ancient times to the present day was what constituted the food of plants and by what mechanism this food was absorbed.

The approach to the solution of this problem was made by some of the ancients, who intimated that common air under certain circumstances could be transmuted into solid bodies, even plants. You will find this view supported by Pythagorus and by Epicurus. Epicurus in his poem De Rerum Natura states that air changes continuously into other substances, which in turn are dissolved into air. This was the first approach to the theory which later became known as the rotation of organic and inorganic matter in nature. Lucretius devoted a beautiful poem to the expounding of this doctrine, and in following his views Anaximenes hinted that all bodies are made of air.

Aristotle propounded the theory that all living things feed upon the elements of which they are composed, which is not a bad beginning for a theory of vegetation. He described the nutrition of plants as being of necessity moist, and he deducts that a certain degree of heat is a necessary factor in the absorption of food by plants. The soil, says Aristotle, serves as the stomach of all plants, and the same number of substances that can be found in a plant will also be found in the earth. He does not attribute to plants any life activity of their own.

This doctrine remained valid down through the Middle Ages and into the period of the Renaissance. The Roman authors repeated it without criticism. The ancient agricultural authors such as Cato, Varro, Columella, Virgil and Plinius never went beyond the Aristotelian principles, and even in Linné's Philosophy of Botany, published in 1751, we find as a fundamental principle, the following sentence: "Plantarum ventriculus est terra".

* Invitation paper read before the Agricultural Libraries Section of the American Library Association, at the Fifty-fifth Annual Conference, Chicago, Illinois, October 16-21, 1933.

Even before the period of the Renaissance, however, the Aristotelian wisdom was shaken by at least one man who, as a scientist, went far beyond his day. This was Johannes Cusa, a cardinal of the Church of Rome, and a very keen thinker. He introduced into science an entirely new method, which sounds to us quite simple, but was really a radical departure from the ancient practice of deduction. Cusa maintains that in order to ascertain tangible facts in nature, and to estimate the effects of natural forces, you must do two things -- you must weigh, and you must measure. And so he weighed and measured. He placed a young tree in a pot containing a definite quantity of soil. He let it grow and after some time detached the tree from the soil, weighed the tree by itself, weighed the soil by itself, and discovered that the tree had increased very much in weight, while the soil had not decreased in weight appreciably. From this experiment he concluded that the soil furnishes a minor measure of the nutrition of the plant, and that the water is an auxiliary. This experiment probably is the first quantitative physiological experiment ever made. It was described in a little book of which The John Crerar Library possesses a manuscript copy dated 1447. Cusa's acumen as an experimenter was discovered by Sir William Osler, who called my attention to this experiment about twenty years ago. Osler's interest in Cusa was roused because a short time previously I had called his attention to the famous experiment dating from about 1610 with the willow tree, conducted by Johan Baptist van Helmont. Van Helmont's experiment is much more exact than Cusa's, and I shall quote it in full:

"I took an earthen vessel, introduced into it two hundred pounds of soil dried in an oven and afterwards moistened with rain water. I placed in it a willow twig weighing five pounds. From this willow twig grew a tree which after five years weighed one hundred and sixty-nine pounds and three ounces. During the whole period I watered the soil as often as it was necessary with rain water or distilled water. The vessel was large and stood buried in the ground, and in order to prevent the falling of dust it was covered by an iron plate faced with tin and studded with numerous small holes. I did not weigh the leaves that fell during the four years. I finally dried the same soil again and found that it lacked about two ounces of two hundred pounds. The water therefore had produced one hundred and sixty-four pounds of wood, bark and roots."

As an experiment this leaves nothing to be desired. Anybody wishing to check Aristotle's opinion about the soil being the stomach of the plants would adopt some such method as this. Undoubtedly van Helmont knew of Cusa's experiment and had benefited by Cusa's admonition about weighing and measuring. We now know, of course, that while the experiment was correct, the conclusion was wrong. Van Helmont took no cognizance of the influence of the atmosphere upon vegetation. This seeming lack of acumen on his part is quite excusable, however, when we recognize the fact that in 1610 nobody had the remotest idea of the composition of either water or atmosphere.

As the centuries rolled on, the people gathered experience in the pursuit of their occupations, and the cumulated wisdom was recorded by word of mouth for transmission to coming generations. Then came the invention of printing and with it a flood of books on practical agriculture. One of the most entertaining of these is Thomas Tusser's One Hundred Points of Good Husbandry, first printed in London, in 1557. It was reprinted and elaborated

until 1580 when it developed into Five Hundred Points of Good Husbandry, with an Appendix on Housewifery. This famous work tells the farmer what to do from month to month in tending his crops and fruit trees, his domestic animals, soil, woodlot, kitchen garden, and in conducting himself properly before God and his fellow-man -- it likewise outlines the housewife's duties and practice. It was written in its entirety in very good verse, and salted with fine wit. Many editions were printed, the best is the critical one of 1812, edited by William Mavor. Even today, the farmer who would observe the lessons of Thomas Tusser as his only guide, would not go very far wrong.

In an economic way, agriculture rapidly became a skilled art and a profitable occupation, even without the aid of formulated scientific principles. Selection of good seeds and profitable breeding animals, fruit-culture, grafting and the improvement of soils, were practised long before mankind knew the why and wherefore. The estates, parks, gardens and forests still existing, which have been perpetuated since the sixteenth century, show even today that excellent results were obtained in those early days even as the arts of printing and book-binding attained great perfection long before we began to philosophize about the doing of them.

Meanwhile, van Helmont's studies were repeated by Robert Boyle and by many other physiologists. The use of the magnifying glass was applied to scientific investigation, and a series of very interesting experiments were begun by Nehemiah Grew, and afterwards continued by Marcello Malpighi, who developed a new theory of plant nutrition which led to new and interesting conclusions.

From his anatomical studies Malpighi concluded that all plants have an intestinal system and that they live partly on air, which is digested in certain tissues that correspond to human lungs. Malpighi discovered the circulation of the sap in plants from the root to the leaves and deduced from his experiments that the solutions absorbed by the roots are digested in the leaves and distributed from there into various parts of the plant body. Malpighi thus conveyed the location of the Aristotelian plant stomach from the soil to the leaves, which marks a period of progress of nearly two thousand years and demonstrates that the mills of the gods grind slowly.

No librarian can afford to be ignorant of the Vegetable Statics, by Stephen Hales, published in London in 1727 after the contents of the book had been presented in the form of lectures before the Royal Society. It is almost a catechism in the scientific aspects of agriculture and exemplifies a great ability on the author's part to conduct exact experiments. Hales deduced from numerous experiments that the leaves act as pumps, raising the sap in the plant body. He determined also that the plants rid themselves of the superfluous water by transpiration and that the leaves finally serve as organs of nutrition and govern the metabolism of the plant. He also was the first investigator who included in the list of nutritive matter not only water and air, but also certain organic substances and certain inorganic salts, together with some mineral substances.

The greatest of all discoveries in scientific botany was forecast when Charles Bonnet, a prosperous merchant and lover of nature in Geneva, some time in 1747, undertook to determine what was the nature of the bubbles of air that developed on the green parts of plants when placed in water and in the sun-

light. He observed that these air bubbles are formed only in the day time but not at night. He also found that if the plants remained in the water for several days the formation of air bubbles finally ceased, but is resumed again when the water is replaced by new water. He finally found that no bubbles were found even in sunlight when the water was boiled. Several capable chemists and naturalists took up this inquiry at once. First of all, there was Duhamel du Monceau, who did not contribute to the solution of the riddle of these air bubbles, but indicated a new form of experiment with plants, the so-called water culture, that is, the development of plants from seeds in water. The title of his work, La Physique des Arbres, was derived from the statement of Bonnet, who first applied the term of physics to scientific investigations in plants and thereby carried the investigation into the field of experimental and inductive science.

In 1804 the field of research was further developed by Theodor Saussure, whose work Recherches Chimiques de la Végétation, marks a new step of progress, in that he applied chemical methods to the scientific study of plant life. His work probably is the most famous of all of these scientific studies.

Meanwhile, several other investigators had been following up Bonnet's experiments. I already mentioned that Duhamel du Monceau invented the method of cultivating plants in water. In the seventeen fifties an Englishman, Francis Home, published a work of fundamental importance, Principles of Agriculture and Vegetation, a most excellent work, which again introduces a new method, the cultivation of plants in specially prepared soil. In casting about for a uniform substratum for his laboratory experiments, Home found that virgin soil, that is, soil that never had been subject to cultivation, not only afforded a good basis, but a uniform basis for experiments, and by adding various kinds of nutrition to this soil, Home was able to study the influence of a variety of foods on cultivated plants. His results are too manifold to quote in brief, but I should like to mention that he emphasizes the pulverization of the soil as a very important point in practical agriculture. He also found that soil tightly packed was a hindrance to vegetation, and finally he discovered a very important fact, that is, that saltpeter in small amounts was necessary to the growth of the ordinary crops.

Meanwhile, two investigators, Ingen-Housz and Senebier, were working eagerly on Bonnet's air bubbles. They succeeded in differentiating two important functions in plants: first, the development of carbonic acid, and the assimilation of oxygen, which takes place in the absence of light; and second, the assimilation of carbonic acid and the development of oxygen, which takes place in sunlight. Each of these men, Ingen-Housz and Senebier, published a number of important works repeating their experiments over and over again. Meanwhile, on the 17th of August, 1771, a British naturalist, Joseph Priestley, introduced a twig of mint into a bell-jar filled with air in which a candle had burned so long that it would burn no longer. Ten days after he found that the mint had improved the air in this closed chamber in such a manner that a candle would once more burn when it was introduced in it. This observation led everybody concerned to the conclusion that the plants affect atmospheric air differently from animals; that the office of plants as Priestley put it, was to preserve the balance of the atmosphere by producing the life giving element in it. Priestley's Observations on

the Different Kinds of Air, of which many editions were printed, was rewarded by the Royal Society by the Copley Medal, which was the only reward that this investigator received in honor of the discovery that revolutionized chemistry almost as much as the science of physics was revolutionized in 1820 by the discovery of electro-magnetism.

Priestley discovered the element called oxygen on August 1, 1774. Realizing the importance of this discovery, he at once made a journey to Paris, where he met at a party a French scientist by the name of Lavoisier. About a week after this event, Lavoisier communicated to the French Academy the discovery of oxygen and incidentally the discovery of the composition of the atmosphere. This discovery revolutionized nearly all the exact scientific work after this time. After many years Ingen-Housz, who had been sojourning in Austria, went to London, became an honorary member of the Royal Agricultural Society, and in 1796 printed a most remarkable contribution, On the Food of Plants, which summarized and sealed all investigations on this subject during the eighteenth century, and determined the following facts:

Carbon in the form of carbon dioxide is the principal source of plant food. Water does not serve for the nutrition but is merely a medium in which other foods are dissolved in such a way that they may be transported from place to place in the plant body. The soil contains a variety of plant foods, especially inorganic salts, but also organic matter.

Senéquier, whose work is interwoven with that of Ingen-Housz, continued his researches up to the year 1800, and arrived at approximately the same conclusion. The two investigators differed in their ideas of the mechanism of plant nutrition, but these conditions were cleared up by later investigators. I should like to call attention to one special work of Ingen-Housz, his L'Art d'Observer, which is one of the most sagacious works of all time on the whole problem of exact research, and deserves to be not only known but perpetually remembered and used, for its sane principles and excellent indications of methodology, especially at this time, when research has run riot.

The investigations of Saussure in 1804 established the facts that plants develop carbonic acid both in the sunshine and in the shade; also that the presence of carbonic acid is necessary for the growth of plants in the sunshine; that light acts as an incentive to growth. Saussure also undertook elaborate analyses of the ashes of plants, and discovered the very important relation between the mineral salts and vegetable growth and development. His experiments cover a very wide range. He determined, for instance, the maximum and the minimum amounts of phosphorus necessary to growth, and established the exact foundation upon which the practical application of fertilizers was organized during the coming century.

When we come to the nineteenth century it at once becomes apparent that the great development in experimental science which characterized the last half of the eighteenth century ceased for some time. During the first quarter of the nineteenth century a spirit of so-called natural philosophy governed the scientific world everywhere. The movement originated with Schelling, whose pure philosophy was very attractive, but his apostles would

have done well in letting natural history alone. Only in one field were systematic researches continued during this period, and that was in analytical chemistry. The ashes of nearly every known plant were analyzed, and the economic laws of agricultural practice were determined by elaborate studies of social conditions. The most notable result of this movement was the publication of Krünitz' Encyclopedia of Practical Arts, which, with its nearly three hundred volumes, contained a large number of monographs which still remain models of perfection. Meanwhile, the three-field and the four-field systems of farming were instituted in the great agricultural estates in Germany and France. The physical condition of the soil was studied by Schumacher, and the chemistry of the soil was investigated most successfully by Jean Baptiste Boussingault, whose great work, Agronomie, Chimie, Agricole, et Physiologie, still remains one of the most comprehensive treatises on the chemical conditions of the soil. Boussingault established the first agricultural laboratory on his estate in Alsace exactly one hundred years ago and that was the beginning of the experimental activity which attained climax after climax in efficiency and usefulness as the century of progress unfolded among us.

The general result of the manifold efforts during this period of analytical research was that the plants require certain essential elements as food, the so-called chemical elements having been discovered in quick succession during the first quarter of the century. The following elements were determined as necessary plant food: nitrogen, potassium, calcium, magnesium, iron, sulphur and oxygen. The various combinations of these elements with or without other minerals, form the accessible plant food in the soil.

In 1840 the modern development of what we may call agricultural science began with the activities of Justus von Liebig. As the result of his most diligent and ingenious study, first in his father's laboratory in Darmstadt, then in the laboratories of Thenard and Gay-Lussac in Paris, and afterwards in the famous chemical laboratory in Giessen, Liebig perfected a book which he called Organic Chemistry in its Application to Agriculture and Physiology. It was published in 1840, and at once attracted attention all over the civilized world. No single book had ever had a similar influence upon practical farmers everywhere. They had been accustomed to receive new theories in science and industry in popular language. Liebig almost at one stroke induced them to talk knowingly of the chemical elements and their combinations, the various analytical processes and of chemical ideas in general. He impressed practical men as one that knew what he was talking about. When followed, his advice led to decidedly beneficial results in practical agricultural work. His name became a name almost to conjure with. On the title page of his book, his name was followed by nine lines of academic and complimentary titles. He instituted at once an era in husbandry where the practical agriculturist found himself working hand in hand with the progressive and far-seeing scientist.

Liebig's book gave rise to a protracted controversy. No less than fourteen controversial papers followed its publication almost immediately, and if you are fond of polemics, read Liebig's *Annalen* for 1841-1845. The controversy covered two points: (1) the question whether humus (decaying

organic matter in the soil) was a plant food; (2) the possible substitution of one mineral salt, such as sodium for calcium and vice versa.

While this struggle went on, Alph. De Candolle was quietly studying the origins of cultivated plants, and the governments of all Europe were surveying the foreign colonies for new industrial plants. The India Company acquired plant products and desirable industrial plants from the British colonies in the East. Wallich, in Calcutta, and afterwards Hooker during his journey in India, procured many new economic plants. Even earlier, the Royal Horticultural Society sent David Douglas to our Northwestern country and to the Sandwich Islands, in search of ornamental and useful plants. Thus, agriculture soon began to affect the industries.

But the industries rapidly affected agriculture. Reapers and seeders were invented. It became desirable to test new ideas and inventions. Acting on the example of Boussingault in France, Sir John Lawes at Rothamsted in England established a private experiment station, and soon a whole crop of such stations sprang up in Germany. The Duke of Bedford similarly supported botanical research.

Here, in our home country, the first experiment station may be said to be the private estate of George Washington. He was an extensive reader of agricultural literature, and his correspondence on practical and economic subjects with Arthur Young and Sir John Sinclair is part of our history. But Washington also possessed the spirit of research and carried on numerous tests with fertilizers and machinery, seed selection and the introduction of select varieties. The first American book on agriculture was Jared Eliot's Essays upon Field Husbandry in New England, published in 1760. Washington went far beyond the primitive colonial farming. However, what neither the working farmers nor the early chemists, nor even Liebig observed, was worked out by Boussingault, supported by Sir John Lawes and Gilbert, that nitrogen in a soluble form is of prime importance as a plant food. Wolff in Hohenheim labored over the same problem by years. In the sixties Jul. von Sachs discovered the method of laboratory cultures in water, and Hellriegel indicated similar nutrition studies in sand cultures. One American scholar arrived in Europe just in time to share in some of this work; it was Samuel W. Johnson, who afterwards served as Professor of Agricultural Chemistry at Yale from 1856 to 1896. His teaching in a large measure determined our own organized work on our own problems. Many of our great scientists afterwards served their apprenticeship in our agricultural experiment stations, which was supported in time by more and extensively organized work of our national Department of Agriculture. The history of this period has been partly written. Within fifty years, both in Europe and here, agriculture became a group of exact sciences, working hand in hand with the tremendous evolution of physics, chemistry, zoology and botany.

It is natural that our own history is the most interesting to us. When I mention such names as C. V. Riley and L. O. Howard, a vista is opened to an advance in economic entomology almost incredible when considered in connection with only fifty years of progress. -- When I refer to Atwater and Armsby and their work in animal nutrition with balanced ratios and energy

tests based on studies by means of calorimeter work extended over many years, I mark a new era in American science and economics. Again, I must remind you of H. W. Conn's great work on the ripening of cream by controlled bacteria cultures, fundamental for all time. Most of our universities and our experiment stations specialized on definite problems. In Iowa, Pammel studied grasses, weeds and honey plants; from Iowa we had in time four secretaries of agriculture, James Wilson, the two Wallaces and Edwin Thomas Meredith. Think of what that energetic little man Charles E. Bessey, in Lincoln, Nebraska, did for popular education in all branches of science relating to agriculture. Think of Babcock and Russell in Wisconsin, their services to the dairy industry, or of Goesmann in Massachusetts and his researches on fertilizers. Let some library school student trace out some time what is the contribution of the Cornell University Experiment Station to enlightenment among farmers, both scientifically and popularly. Pennsylvania State College had the foresight to install a Pettenkofer-Voit calorimeter, and the New Jersey Station gave its attention to soil bacteria, almost before we awoke to their initiative.

All this is within the memory of man. I recollect the appearance of the first number of the Experiment Station Record, I met Riley, I saw Galloway at work, I followed at a distance Nils Hansen in his studies of hardy varieties for introduction into the severe climate of the Northwest -- and his work in teaching us how to grow alfalfa.

And again, I remember the publication in 1887 of Hellriegel and Wilfarth's work on the absorption of atmospheric nitrogen by leguminous plants. I have seen Beijerinck's cultures of the root bacteria and I have tried the Wisconsin strains on sandy potato soil. I am glad to lay before you now a shining example of American scholarship in the great monograph on the Root Nodule Bacteria and Leguminous Plants, by Fred, Baldwin and McCoy. Here is the counterpart to all the great work in scientific agriculture in the past -- a book to which we may point with pride -- a work which, in science, corresponds to George Washington's work in statesmanship!

As to the future, I suggest that all of us watch the progress of colloid chemistry. -- Many years ago James Wilson, then Director of the Agricultural Experiment Station at Ames, mentioned to Professor Pammel that he was reading a book which interested him greatly. It was Darwin's Origin of Species. Mr. Wilson, who was a very successful farmer and stock breeder, added the remark that it was awfully hard reading, but, by Jove, there was something in it. As a farmer of ability he felt that the method of evolution had possibilities for the breeding of animals and plants. It was not the final word, but there was something in it.

Of colloid chemistry we may predict the same, it will determine our work on soils and on the permanency of soil fertility: which means the conservation of our civilization.

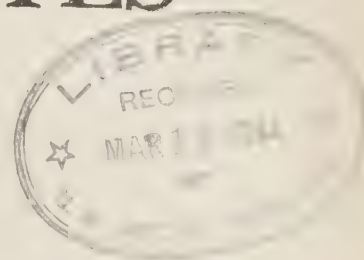
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Clark ✓
Coffman ✓
Hailan ✓

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PRINCIPAL LIBRARY ACCESSIONS

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Among the theses submitted for masters degrees in June, 1934, at the Oregon State Agricultural College, Corvallis, were the following:

- A contribution to the paleontology of the palezoic faunas of Central Oregon. B. Norman Gonzales.
- The ionization constant of pantothenic acid. Robin Emerson Mozer.
- Sludging in internal combustion motors. Harold William Berg.
- Contractions accompanying the swelling of gelatine in solutions of varying pH. Betty Brown.
- A study of the homemaking experiences and interests of the girls in Pacific Union and Walla Walla Colleges. Marjorie Bernice Chapman.
- The thermochemistry of Hydrazine: (1) Construction of an automatic adiabatic calorimeter. (2) Determination of specific heat capacities. Alan Wilfred Cobb.

OREGON STATE AGRICULTURAL COLLEGE GRADUATE THESES

(continued)

- Umbellulose: Pharmacological and bacterial properties.
Miles Edvard Drake.
- Aggregate grading for mechanically compacted concrete pipe.
George Walter Gleeson.
- A graphical study of food costs of the Department of Dormitories, Oregon State Agricultural College. Ruth Westcott Hansen.
- Volatization studies of spray oils. Miles Brayton Hatch.
- The comparative efficiency of different types of dairy farm milk coolers. Hans Hoffmann.
- The biochemical oxygen demand studies of sewage and industrial wastes in the Willamette Valley. Edgar Fuller Howard.
- Ecological anatomy of woody plants with special reference to leaf variations. Lee Oscar Hunt.
- Combining weights of proteins. William Jack Ingram.
- Flax retting. Howard Theodore Johnston.
- Polar analysis of beam-columns for aircraft. Walter Richard Jones.
- The effect of hydrogen ion concentration upon the absorption of dyes by cellulose and fillers. Delman Vernon Kuykendall, jr.
- A preliminary study of contributions of Oregon farms to the aid of the unemployed during the depression, 1933-1934.
Floyd Llewellyn Langdon.
- The potency of Oregon foxglove (*Digitalis* species). Donald Kuo-Chih Lee.
- The use of individual instruction sheets in high school foods classes. Esther Tanner Long.
- A method of predicting the drying times for Douglas fir heartwood.
Everald Elmer Nelson.
- The effect of ponding and aeration on the biochemical oxygen demand of sulfite liquors. Matthew Jennings O'Dell.
- The grasslands of North America. John Raymond Parker.
- Some observations on the life history and bionomics of the holly scale, *Aspidiotus britannicus* Newst., in Oregon.
James Richardson Roaf.
- Factors relating to cold resistance in strawberries.
Trevor Arnett Steele.
- Trends of economics in secondary education in Oregon.
Richard Thomas Thacker.
- A study of the expenditures of home economics freshmen at Oregon State College 1930 to 1933. Mary Little Thomas.
- The establishment of Douglas fir reproduction in relation to certain natural environmental factors. Henry Tiedemann.
- The occurrence of the spores of *Clostridium Botulinum* in certain soils of Benton and Linn Counties, Oregon.
Margaret Elaine Williams.

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THE FIRST ENGLISH BOOK ON CLOVER, AND ITS AUTHOR

The following extracts are from an article by G. E. Fussell which appeared in the Journal of the Ministry of Agriculture for July, 1934, volume 41, number 4, pages 353-358.

"The first English book wholly devoted to clover as a field crop was published more than 250 years ago, and the author's recommendations must have seemed as fantastic to some of the farmers of that time as do many of the theorists' panaceas for their present troubles to the farmers of to-day. Andrew Yarranton, of Ashley, in the county of Worcester, however, has been justified by the effluxion of time; and possibly some of the modern theories may be commonplaces of farming when another two and a half centuries have passed.

"It is true that the little book written by Yarranton, under the title of 'The Great Improvement of Land by Clover, 5/was not, as he was himself quite ready to acknowledge, the earliest publication to set out the advantages of clover, but it was the first that dealt solely with this crop. Although it seems to have obtained a dubious reception when published, its value has been fully recognized since. In 1854, it was said that 'this little work is the most truly practical matter that had appeared in the agricultural world to the time when it was written, as it was divested of all extraneous and adventitious notices with which the writers of those times swelled their works and rendered them very perplexed and unintelligible. It contains more value in 46 pages than is in many hundreds of contemporary publications'. Since these words were practically repeated verbatim in 1908, we may assume that the opinion holds good...

"It is a little odd that Yarranton's book on clover has not been more freely mentioned by writers on farming literature. It is not mentioned in the eighteenth-century 'Museum Rusticum et Commerciale', a periodical that published in its fourth volume remarks on earlier farming authors; nor did Arthur Young mention Yarranton in the 'Annals of Agriculture,' which ran for thirty years. The 'Journal of the Royal Agricultural Society' has published many essays on the eminent progenitors of modern farming, but Yarranton has found no niche in its pages, and C. W. Johnson, who wrote on 'Agricultural Writers of the Middle and End of the 17th Century' in the 'Journal of Agriculture,' XII (1841-2), does not mention him.

"The cultivation of clover was not, indeed, the only scheme that Yarranton had for his country's welfare. He has been called the founder of English political economy, because he promulgated various ambitious schemes in his other work, 'England's Improvement by Sea and Land,' 1677. Here again, he did not live to see the fulfilment of his designs, although many of them were ultimately brought to fruition.

"Some of his projects have remained in the realm of theory to this day. Amongst other things, he wished to constitute land banks and to arrange credit facilities for farmers, and he wanted the nation to set up granaries of corn for its own provision against years of short harvest and dear prices; but it is perhaps no place here to go too far into such questions. There is, of course, a great deal of fantastic imagination in some of the theories he advances, but there is, to most of his ideas, a sound basis of common sense. It were a pity if such as he were to sink entirely into oblivion."

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DUPLICATES OFFERED

The Massachusetts Horticultural Society has a number of duplicates of old agricultural books and periodicals for disposal. Librarians interested in obtaining information in regard to them should write to Miss Dorothy S. Manks, Librarian, Massachusetts Horticultural Society, Boston.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING JULY 1934*

Alabama

Simple methods of canning fruits and vegetables. M. Garrett. (Ala. Poly. Inst. Ext. Circ. 137, rev.) Auburn, 1934.
Corn production. J. C. Lowery. (Ala. Poly. Inst. Ext. Circ. 143.) Auburn, 1934.
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Feed production and the use of retired cotton lands. J. C. Lowery. (Ala. Poly. Inst. Ext. Circ. 146.) Auburn, 1934.

California

Growing and handling market peas in California. P. Talbot and A. A. Tavernetti. (Calif. Agr. Col. Ext. Circ. 85.) Berkeley, 1934.

Colorado

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Fort Collins [1934]

Florida

1933 report Cooperative Extension work in agriculture and home economics. Report of general activities for 1933 with financial statement for the fiscal year ending June 30, 1933. W. Newell. (Fla. Univ. Agr. Ext. [unnumbered])
Gainesville, [1934]

Georgia

Georgia poultry rations. F. E. Mitchell and others. (Ga. Agr. Col. Ext. Circ. v. 22, no. 248.) Athens, 1934.
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Annual report of Extension Service. [1933]

Indiana

How to select, feed and manage the pig. J. R. Wiley. (Purdue Univ. Dept. Agr. Ext. Bul. 106, 4th rev. ed.) Lafayette, 1934.
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Posture for women. B. M. Keller. (Purdue Univ. Dept. Agr. Ext. Bul. 203.) Lafayette, 1934.
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The outlook for Indiana agriculture in 1934. (Purdue Univ. Dept. Agr. Ext. [unnumbered]) Lafayette, 1933.

Kansas

Kansas dairy calf management. J. W. Linn and D. M. Seath. (Kans. State Col. Ext. Bul. 67, rev.) Manhattan, 1934.
Milk houses for Kansas. Producing grade "A" milk. W. G. Ward and others. (Kans. State Col. Ext. Bul. 74.) Manhattan, 1934.

*Prepared in the Office of Experiment Stations Library

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Maryland

Building the future of Maryland through 4-H club work. E. G. Jenkins and
D. Emerson. (Md. Univ. [Agr.] Ext. Bul. 72.) College Park, 1934.
Egg production in fall and winter. W. H. Rice. (Md. Univ. [Agr.] Ext. Circ.
54, rev.) College Park, 1934.
Soybeans for hay and seed. F. W. Oldenburg. (Md. Univ. [Agr.] Ext. Circ.
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Growing and housing better pullets. W. H. Rice. (Md. Univ. [Agr.] Ext.
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Park, 1934.

Massachusetts

Apple varieties in Massachusetts. R. A. Van Meter and J. K. Shaw. (Mass.
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Mississippi

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1934 agricultural outlook for Mississippi. (Miss. State Col. Ext. [unnumbered])
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New Hampshire

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Beekeeping in New Hampshire. J. R. Hepler. (N. H. Univ. [Agr.] Ext. Bul. 46.)
Durham, 1934.
Fresh eggs as sold at retail stores. L. A. Dougherty and L. A. Carlisle.
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Feeding chickens. A. E. Tepper and others. (N. H. Univ. [Agr.] Ext. Circ.
158.) Durham, 1934.
Emergency garden report, 1933. J. C. Kendall. (N. H. Univ. [Agr.] Ext.
Circ. 159.) Durham, 1934.
Range shelters. T. B. Charles and others. (N. H. Univ. [Agr.] Ext. Circ.
160.) Durham, 1934.
Attractive quilts and rugs. D. D. Williamson. (N. H. Univ. [Agr.] Ext.
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- Spray residue removal from fruits and vegetables. H. C. McLean and A. L. Weber. (N. J. Agr. Col. Ext. Bul. 122.) New Brunswick, 1934.
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- Asparagus production. L. G. Schermerhorn. (N. J. Agr. Col. Ext. Bul. 124.) New Brunswick, 1934.
- Belts and pulleys. W. C. Krueger. (N. J. Agr. Col. Ext. Bul. 126.) New Brunswick, 1934.
- Pollution of wells and its prevention. W. Rudolfs. (N. J. Agr. Col. Ext. Bul. 127.) New Brunswick, 1934.
- Registering tattooed poultry. J. C. Taylor. (N. J. Agr. Col. Ext. Bul. 128.) New Brunswick, 1934.
- Growing onions in New Jersey. C. H. Nissley. (N. J. Agr. Col. Ext. Bul. 129.) New Brunswick, 1934.
- Sweet corn growing. C. H. Nissley. (N. J. Agr. Col. Ext. Bul. 130.) New Brunswick, 1934.
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- Common ailments of dairy cattle. E. J. Perry. (N. J. Agr. Col. Ext. Bul. 132.) New Brunswick, 1934.
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- 4-H home making clubs. M. B. Murphey. (N. J. Agr. Col. Ext. Bul. 134.) New Brunswick, 1934.
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New York

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- Control of diseases and insect pests of potatoes on Long Island. M. F. Barrus and C. R. Crosby. (N. Y. Agr. Col. (Cornell) Ext. Bul. 288.) Ithaca, 1934.

North Dakota

- Feeding for milk production. J. R. Dice. (N. Dak. Agr. Col. Ext. Circ. 124.) State College Station, Fargo, 1934.
- Blighted barley, a seed problem. W. E. Brentzel. (N. Dak. Agr. Col. Ext.) [unnumbered] State College Station, Fargo, 1933.
- Caring for beef. A. Severson and R. M. Dawson. (N. Dak. Agr. Col. Ext.) [unnumbered] State College Station, Fargo, 1934.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING JULY 1934
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- Ohio farm woods, a neglected crop. F. W. Dean. (Ohio Agr. Col. Ext. Bul. 142.) Columbus, 1934.
- Eradicating Canada thistle. C. J. Willard and R. D. Lewis. (Ohio Agr. Col. Ext. Bul. 146.) Columbus, 1934.
- Save the foals. L. P. McCann. (Ohio Agr. Col. Ext. Bul. 147.) Columbus, 1934.
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- Purpose and use of contracted acres under corn and wheat adjustment programs. J. A. Slipper and R. D. Lewis. (Ohio Agr. Col. Ext. Bul. 150.) Columbus, 1934.
- Sudan grass, soybeans and other midsummer hay and pasture crops. E. Jones and others. (Ohio Agr. Col. Ext. Bul. 151.) Columbus, 1934.

Texas

- Extension farm news. v. 20, no. 9. May/June 1934.
Official 1933 report of the Extension service.

Utah

- Safer methods of dry-cleaning in the home. E. Agren. (Utah Agr. Col. Ext. New Ser. Circ. 67.) Logan, 1934.

Vermont

- Apple spray program. M. B. Cummings. (Vt. Agr. Col. Ext. Circ. 78.) Burlington, 1934.
- The Vermont five-point pasture plan. P. R. Miller. (Vt. Agr. Col. Ext. Circ. 79.) Burlington, 1934.

Virginia.

- A year of extension activity. Annual report of Extension work in agriculture & home economics in Virginia. J. R. Hutcheson. (Va. Agr. Col. Ext. Bul. 133.) Blacksburg, 1934.
- Bang's disease (infectious or contagious abortion) L. E. Starr. (Va. Agr. Col. Ext. Bul. 134.) Blacksburg, 1934.

Washington

- 4-H garden club outline. C. L. Vincent. (Wash. State Col. Agr. Ext. 4-H Club Circ. 24.) Pullman, 1934.

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SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

of the U. S. Department of Agriculture
received during July, 1934, exclusive of bibliographies and current issues of
serials.*

The reopening of foreign markets for our agricultural products. Address by
Henry A. Wallace at the American institute of cooperation, Madison, Wisconsin,
July 11, 1934. 28 p.

Nature and agricultural adjustment. Address of Rexford G. Tugwell at the annual
Farm and home picnic, Brookings, S. D., June 29, 1934. 19 p.

The cooperative approach to production control. Address of Mordecai Ezekiel
before the American institute of cooperation, Madison, Wisconsin, July 9,
1934. 17 p.

Government and agriculture. Synopsis of discussion by Dr. Mordecai Ezekiel
before round table at Institute of public affairs, University of Virginia,
July 13, 1934. 8 p.

Agricultural Adjustment Administration

Agriculture and the new deal. Address by George E. Farrell. Prepared for
delivery at annual meeting, American association of college editors, Uni-
versity Farm, St. Paul, Minnesota, July 25, 1934. 12 p.

Dairy marketing agreements and licenses. Address of Jerome N. Frank before the
American institute of cooperation, Madison, Wisconsin, July 9, 1934. 25 p.

Developments in a program for tobacco growers. Address by J. B. Hutson, Chief
of Tobacco section, before Farmers meeting at Chatham, Virginia, July 4, 1934.
12 p.

Farm income, benefit payments and processing taxes. Address of Alfred D.
Stedman at the American association of agricultural college editors'
meeting, University Farm, St. Paul, Minnesota, July 25, 1934. 16 p.

Objectives in the land use planning program of the United States government.
By L. C. Gray. 1934. 10 p. Address delivered at a land-use conference,
Berkeley, California, June 18, 1934.

The place of the cooperatives in the agricultural adjustment program. Address
of H. R. Tolley at the American institute of cooperation, Madison, Wisconsin,
July 9, 1934. 22 p.

Purposes and results of the Agricultural adjustment act. Address of D. P. Trent
at the annual Farm and home week, Fayetteville, Arkansas, July 31, 1934.
16 p.

* For a list of the principal series issued regularly see v. 4, no. 1-2, page
347.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Agricultural Adjustment Administration
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Price prospects for the 1934 flue-cured tobacco crop. Address by J. B. Hutson at the 13th annual field day, tobacco station, Oxford, N. C., July 26, 1934. 9 p.

Resume of bills introduced into Congress affecting the Agricultural adjustment administration. June 27, 1934. 8 p.

Bureau of Agricultural Economics

The edible fat problem in Germany. By H. E. Reed. 17 p. F.S.-61. (Issued by Foreign agricultural service)

The Federal public lands. General information for inquirers. 1934. 4 p. (Issued by Division of land economics)

Marketing Florida citrus, summary of 1933-34 season. By H. F. Willson, 83 p. (Issued in cooperation with Florida state marketing bureau and Florida control committee)

Marketing northwestern fresh prunes; a summary of the 1933 season. By J. D. Hamilton. 17 p.

Marketing potatoes. Kaw Valley, Kansas, Orrick district, Missouri, Arkansas, Oklahoma. Summary of the 1933 season. 22 p.

Marketing Texas citrus, Lower Rio Grande valley of Texas. Brief review of the 1933-34 season. By W. D. Googe. 19 p. (Issued in cooperation with Texas dept. of agriculture, Markets division.)

Marketing Texas vegetables, (beans, beets, broccoli, carrots, cucumbers, green corn, onions, peas, spinach, mixed vegetables). Brief review of the 1933-34 season. By W. D. Googe. 1934. 24 p.

Pacific coast boxed apple exports. A summary of the 1933-34 season. By J. D. Hamilton. 7 p.

A review of the 1934 Imperial valley cantaloupe season. By A. E. Prugh and L. T. Kirby. 9 p.

Tentative United States standards for dry peas. 1933.

United States standards for grades of unpitted sulphured cherries. May 17, 1934. 4 p.

1933 shipments of northwestern fruits and vegetables unloaded. 10 p.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Agricultural Engineering

Brief instructions for the design and construction of small dams for emergency conservation work in North Dakota. By L. C. Tschudy and John G. Sutton. 1934. 23 p. (Issued by Division of drainage and soil erosion control).

Bureau of Chemistry and Soils

Rural community fire prevention. Address by David J. Price at Lancaster county fire school, Millersville state teachers college, Lancaster, Pa., July 20-21, 1934. 10 p.

Bureau of Entomology and Plant Quarantine

Summary of the Dutch elm disease situation in the United States as of June 20, 1934. By K. F. Kellerman. 3 p. (Issued by the Division of Plant disease eradication)

Extension Service

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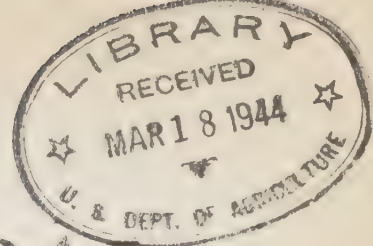
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PHOTOGRAPHIC REPRODUCTION OF SCIENTIFIC PUBLICATIONS: RECENT DISCUSSIONS

"Reforms in Chemical Publications (Documentation)" by Dr. Atherton Seidell, which appeared in Science for July 20, is a thought provoking article for librarians as well as chemists. He calls attention to the great number of journals and documents on chemistry, so large that even though one has access to excellent libraries, it is practically impossible to obtain and consult all original published articles on the subject, and says an amelioration of this situation is necessary if chemistry is to continue to advance at a rapid rate. He explains how the problem is being studied by the Office International de Chimie which was organized a few years ago for the purpose of finding a solution. He then goes on to discuss a plan suggested by Mr. Watson Davis of the Science Service and comments on it as follows:

"Mr. Davis"s plan embraces not only chemical but all other scientific publication. He suggested that a central scientific information institute (S.I.I.) might eventually be established and thus perform the double function of publication of current original communications and the furnishing of bibliographies and photographic copies of current and previously published scientific documents.

"He proposes that a photographic process of reproduction of documents be substituted for publication by means of the printing press, in all cases except papers of general interest and abstract journals.

"According to his plan printed journals of original research would disappear and all original communications would be submitted to the Scientific Information Institute. Abstracts of these would be published in the appropriate abstract journals. The individual would gain his knowledge of new discoveries in science by means of the abstract journals. He would then order from the Scientific Information Institute photographic copies of all original papers desired. He would thus pay for and receive only those publications he needed for the particular research in which he was engaged.

"The proposal made by Mr. Davis contemplates a complete reorganization of the present methods of scientific publication. Although this may be advantageous, it certainly can only be achieved very gradually. It is therefore necessary to prescribe the successive steps towards this end which may be taken without too greatly disturbing the existing order of things - such steps as will at first supplement present efforts rather than supplant them and render those services which changing conditions are making increasingly difficult.

"It is believed that the inauguration of a service of photographic reproduction of chemical publications would be an initial step which would satisfy the conditions mentioned. This might conveniently be referred to as the American Bureau of Chemical Documentation (A.B.C.D.). Its initial function would be to make and distribute photographic copies of documents describing chemical research.

"As will be realized, the success of such a venture depends upon the perfection of a satisfactory and economical process of photographic reproduction of printed documents. Some progress has already been made in this direction, and it may be assumed that suitable devices to meet the particular needs of the case will be developed...

"When such standardized equipment becomes available there should be established in each county a Bureau of Chemical Documentation in which photographic copies of current and former publications may be made for those who request them. Naturally, the bureau must have access to excellent libraries and be provided with filing cases for conserving the negatives prepared of all original papers demanded.

PHOTOGRAPHIC REPRODUCTION OF SCIENTIFIC PUBLICATIONS: RECENT DISCUSSIONS
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"In the beginning the service rendered by the bureaus would undoubtedly be most appreciated by chemists working in localities not well provided with chemical libraries. This service would enable such persons to undertake research not otherwise possible. It would in fact put them on an equal footing with chemists having access to the best stocked libraries. The convenience of having so much of the literature of a given subject in one's hands in a convenient form can hardly be overestimated. The fact that the cards do not have to be returned promptly to the library, as is the case with borrowed books, should be particularly appreciated. They are available for consultation indefinitely and if lost or destroyed can be easily replaced.

"There is, however, an even greater advantage and economy which such a system of furnishing copies of original papers would provide. This is in reference to the printed publication of original papers.

"At present the number of papers offered to chemical journals for publication is far in excess of the number which can be printed with the available resources. Many of these papers are refused and practically all are accepted only if they are condensed to a considerable degree. This results in the printing of many papers which are in large part unintelligible to those for whose benefit they were written. In such cases it would be far better if only a brief résumé of the paper was printed and the original complete communication placed on file in the editorial office or elsewhere. Photographic copies of it would then be distributed by the B.C.D. exactly as would be done for all other papers. To those requiring full details of the investigation this plan would be of inestimable benefit and to editors of journals it would probably provide a welcome relief from frequent embarrassment.

"It may be expected that this curtailment of printed publication would be taken advantage of on an ever-increasing scale and the amount of such unprinted chemical literature eventually would become very great. The cost of distribution in this way would be so much less than by the printed journal that certain of the more theoretical publications could probably be discontinued and many others greatly reduced in size and circulation...

"Since the pressure of publication in printed journals would be relieved, funds not devoted to that purpose could be diverted to the expansion and improvement of abstract journals...The chemical literature needs of a chemist would then be almost completely supplied by his abstract journal and the photographic copies of papers furnished by the B.C.D. Borrowing from and returning journals to libraries would be reduced to such an extent that a considerable saving in service rendered by libraries would result.

"With the perfection and international adoption of this system of chemical documentation it is reasonable to expect that other branches of science will quickly follow suit. Bureaus of documentation similar to those for chemistry would be organized for other sciences and the same equipment used for the photographic reproduction and the projection of these for reading. Thus the goal described by Mr. Davis would be gradually approached..."

In a subsequent article entitled "The photomicrographic reproduction of documents" which appeared in "Science" for August 24, Dr. Seidell discusses in more detail the process involving the photographing of printed pages.

PHOTOGRAPHIC REPRODUCTION OF SCIENTIFIC PUBLICATIONS: RECENT DISCUSSIONS
(continued)

Another article on the photographic reproduction of publications, entitled "Copying manuscripts on motion picture film", by J. B. Ficklin, of Hartford, Conn., which appeared in "Science" for August 31, comments on Dr. Seidell's article as follows:

"In Dr. Seidell's article 'Reforms in Chemical Publication (Documentation)', reference was made to the increased probability of the fulfilment of his aim if there was available suitable apparatus for photographing manuscripts on 16 mm film. Such a device known as a 'copying camera' using 35 mm film, 100 foot lengths, was developed at the Sterling Library, Yale University, some months ago by Messrs. F. G. Ludwig and L. H. Ott. It proved so satisfactory that since that time they have built a number for use in various other institutions, such as the Library of Congress and the New York Public Library. The camera at the last-mentioned institution has been used for making permanent records of newspapers, which of course would survive only a short period of actual handling."

A recent article in a Raleigh, N. C., newspaper states that a grant of \$12,500 made by the General Education Board in April of the present year makes possible the exchange of the card catalogues of Duke University and the University of North Carolina. To give each library a complete catalogue of the other's holdings, arranged alphabetically by authors, required the duplication of about 250,000 cards, size 3" x 5". It was found that a photographic process would be the quickest and most economical way to secure these reproductions. The process used is patented under the trade name of "Dexigraphing".

In Science for September 14, p. 245, the discussion on "Reform in the system of scientific publication" was continued by M. B. Visscher, College of Medicine, University of Illinois. His article, with a few omissions, is given below.

"The appearance of the letter from Dr. Atherton Seidell... on 'Reforms in Chemical Publication,' outlining the plan of Mr. Watson Davis for an improved method of recording and distributing the results of scientific research, prompts me to publish a résumé of a plan which I have discussed with several scientists during the past three years... The following statement written a year ago sets forth some of the many reasons for a change in our system of publication and preservation, and briefly indicates another type of system which it appears would obviate most if not all of our present difficulties. It is to be noted that the plan suggested by Mr. Davis is similar in purpose to that outlined below and that the methods are only slightly different. It appears somewhat significant that independent approach to the problem has led at least two persons to virtually identical conclusions concerning the method of choice in the eventual solution of the problem.

"The problem of providing means for the dissemination of scientific information has become more acute with the increase in the number of scientific investigators... This increase in number of workers has resulted in at least a corresponding increase in the volume of scientific work needing publication. The present 'journal method' of publication had its origin in a local institutional, or even departmental, organ of publication... The use of widely distributed periodicals for publishing scholarly work in full has appealed to the natural scientist apparently more than it has to philosophers and social scientists, who have long used the monograph system for their

PHOTOGRAPHIC REPRODUCTION OF SCIENTIFIC PUBLICATIONS: RECENT DISCUSSIONS
(continued)

original contributions. It may be that scientists have been willing to condense their material and omit the majority of its detail in a way that other scholars have been unwilling or unable to do. It is a fact, however, that there arrives a point in the process of condensation and elimination beyond which one can not go without sacrificing the clarity and completeness of evidence.

"It seems that this point has been reached in the requirements which editors of scientific journals are now forced to impose upon their contributors in order that the whole volume of results of current research may be reported in some manner.

"The problem of scientific publication is becoming exceedingly acute from another angle, namely, that of the cost of providing working libraries in centers of scientific research. With the increase in volume of published material, the great majority of research libraries have been unable to keep up more than the pretense of maintaining complete files of all relevant periodicals. A survey of subscriptions lists in the United States shows that there are many periodicals in special fields for which there are only two or three subscriptions in the entire country. Even in the case of some of the most important periodicals in certain specialized fields, such as hematology, there are only ten subscriptions in the entire country. This condition is deplorable because it implies that a great many investigators must be without ready access to literature of primary importance to their own problems. It is, in all likelihood, a contributing factor to a lack of familiarity with important literature which is often evident in scientific papers. The notion that any reasonable number of libraries can at present hope to maintain a complete file of all relevant publications is a myth, which it seems should be dissipated as soon as possible.

"The solution of the problem is of great importance, even if it is not simple. An increase in the number of periodicals or in the volume of those already in existence would accommodate the increased volume of publication, but it would do nothing to lighten the load on the libraries or on the investigator himself who finds it increasingly difficult to read the entire volume of original material in his own field.

"There are three major objectives in any permanent solution of the publication problem. The first, and most important, is provision for full and adequate presentation of all aspects of the problem, including a reasonable historical introduction, a reproducible description of all methods of observation and a full presentation of experimental results and deductions.

"The second objective consists in a device for adequate indexing and abstracting of all publications in order to lighten the burden upon the investigator who is finding the literature problem an overwhelming one...

"There is no really sound reason why the duplication of effort in searching out all relevant material in the literature should be imposed upon every investigator in the field. I trust the time will never arrive when indexing and cataloging will be so perfect that an investigator will have to do no foraging on his own account; but there could be an enormous improvement in our existing workaday routine methods without danger of losing the opportunity for individual ingenuity in literary searches.

PHOTOGRAPHIC REPRODUCTION OF SCIENTIFIC PUBLICATIONS: RECENT DISCUSSIONS

(continued)

"The third objective is to provide a mechanism whereby a library may, with a reasonable budget, maintain itself as an adequate working tool for investigators using it. Two changes seem to be indicated in order to bring about needed improvement in this line. The cost of publishing scientific material must be reduced. The expensive methods of printing and illustration must, it seems, give way to less expensive, yet entirely adequate methods of reproduction. Scientific literature has a very limited distribution and the expense of type setting and engraving is not warranted, either from the point of view of the necessity for perfection and permanence, or from the economic angle. With the perfection of such methods as photolithography which lend themselves to the problem of inexpensive reproduction in limited editions, there seems no longer any necessity for the continuance of the time-honored methods.

"Furthermore, the journal method itself is open to serious criticism as the most desirable means for publishing scientific results. A volume of a journal may contain anywhere from a single to two hundred separate and distinct publications. There are many so-called border line journals which contain infrequently very important contributions to investigators in a particular field. A working library can not afford to be without those contributions, neither can it afford to pay for the printing and distribution of all the irrelevant matter in order to provide itself with the small part which is really necessary. There are some journals whose entire content is useful in particular libraries. There seems to be no question but that a larger number of libraries could be completely stocked with substantially all relevant publications in particular fields if those publications were available as separata instead of being available only in connection with large quantities of irrelevant material.

"In order to bring about these desired ends, it is suggested that an organization such as the National Academy of Science undertake the problem of supervising the publication of all scientific material in this country. Similar bodies might function in other countries. The academy would serve as a clearing house and depository for original documents. Once every two weeks a list of all titles, including a condensed abstract of each manuscript, would be sent to every contributing library, carefully and completely indexed as to the content of each paper. Each library would then indicate which papers it desired for its files in the form of separata. A lithoprinting would be made, the cost of each publication being determined by the number of requests received for it. The cost of reproduction would be low, and sale of copies after the first issue could probably be counted upon to provide most of the funds necessary for the abstracting and indexing service. It is estimated that several million dollars a year are spent for the purchase of strictly scientific periodicals in the United States. It is not hard to imagine a system whereby this project could be successfully handled with an expenditure considerably less than is necessary at present.

"Difficulties arise in the fact that there would be handicaps during the establishment of any system so radically different from the existing one. A duplication of effort in attempting to keep two systems working would be uneconomical and prohibitive from that angle unless some endowed organization or governmental agency could undertake to carry such a project through the first few difficult years.

"It is suggested that the American scientific societies consider these problems in their annual meetings, or appoint committees to work jointly in considering a general scheme."

PHOTOGRAPHIC REPRODUCTION OF SCIENTIFIC PUBLICATIONS: RECENT DISCUSSIONS
(continued)

The various references to Mr. Davis's plan which appear in the foregoing extracts give some idea of his revolutionary suggestions regarding the centralization of scientific publication and the substitution of photographic (in the broad sense) duplication for printing-from-type duplication but they touch only lightly upon his equally revolutionary suggestions regarding a like centralization of scientific bibliography and the utilization of a comprehensive scheme of numerical indexing and automatic finding and sorting devices for filing and selective bibliography. His suggestions regarding scientific bibliography are therefore given below but those who are interested in this discussion should read the full plan* of Mr. Davis for, as he himself points out, "workers in science should be unafraid of change and willing to evaluate present mechanisms and methods in the distribution and exchange of scientific knowledge."

"With the purpose of making available without library research of any sort references to scientific literature and bibliographies upon particular research subjects, S. I. I. [Scientific Information Service] would operate a bibliographical file and production service which would absorb existing bibliographical schemes in all fields of science and provide bibliographical material in those fields of science which are not now easily accessible. In brief outline the SII bibliographical service would operate as follows:

"For every published article, past and current, there would be as many abstract bibliography cards in a master bibliographical file as there are subject classifications under which the article should be indexed. A complete and comprehensive scheme of numerical classification by subject would be created through the utilization of existing subject classifications in science, in so far as they can be utilized, and the creation of new subject classification schemes for unclassified areas of science toward the creation of which the best scientific and library brains should be directed. Upon each card (the word card is used although the item in bibliographical index might not be of paper material) there would appear the abstract bibliographical entry and also a subject classification punched or otherwise marked so as to actuate the proper mechanism in an assorting machine of the Hollerith or some photoelectric cell type of sorting machine. Once these bibliographical cards are placed in the files this assorting machine would file them and select from them the classifications desired. The assorting machine could be linked mechanically to a duplicating machine of some sort. In this way it would be possible for SII to receive a request from a scientist for a bibliography upon a certain subject and supply it by setting the assorting machine's selectors to select the number corresponding to that subject classification, the duplicating machine wedded to the assorting machine producing to order the bibliography desired.

"Of primary importance would be the incorporation into this bibliographical index, of references to all past literature. While this is a task of large magnitude it would not involve in most cases the preparation of new bibliographical, or at least subject bibliography, entry since an incomplete

*Project for scientific publication and bibliography (Scientific Information Institute). By Watson Davis. Issued in mimeographed form by Science Service on Aug. 19, 1933, and reissued on Oct. 17, 1933.

PHOTOGRAPHIC REPRODUCTION OF SCIENTIFIC PUBLICATIONS: RECENT DISCUSSIONS
(continued)

inspection of past scientific literature with respect to bibliography shows that a very large portion of the past literature has been indexed either by subject or with abstract bibliography by past or existing bibliographical schemes. Through the use of photographic methods, it would be practical to transfer photographically to the cards of the SII bibliographical index these entries from past and existing bibliographies.

"By charging a fee for this bibliographical service, which in all cases would be much less than the cost of obtaining bibliographies by present inadequate methods, it is believed that this SII bibliographical service after its initial establishment and the covering of past literature, would be made self-sustaining:

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MISCELLANY

The book entitled "The public papers of Francis G. Newlands" (edited by Arthur B. Darling and published in two volumes by Houghton Mifflin Co., Boston, 1932) is reviewed by Ellen Nevins in the American Historical Review for April, 1934, p. 546-548. The following comments are of special interest to libraries: "His two specialties were irrigation and reclamation, with which may be bracketed water power and transportation. Upon these tropics in particular the volumes will always remain a useful work of reference. They present a mass of data upon arid lands, waterways, flood prevention, hydroelectric power, irrigation, timber culture, mineral lands, grazing laws, harbors, railways, the Adamson Act, and so on; some of it coming from sources difficult to reach - for example, careful statements which Senator Newlands prepared for the press, or addresses to general meetings."

An article in "Science" for June 8, 1934, on "The use of permanent paper in scholarly publishing", by Samuel T. Farquhar of the University of California, states that the University prints a special edition of 25 copies of their scientific works on a permanent 100 per cent rag paper and distributes these to a selected list of depositories throughout the world.

"Les Périodiques étrangers dans les bibliothèques scientifiques", an article by L. Bultingaire, Bibliothécaire en chef du Museum, which appeared in the Revue Scientifique, no. 14, July 28, 1934, p. 450-456, is of interest to American librarians.

Among the problems discussed at the conference in tree ring studies held in June, 1934, at the Museum of Northern Arizona, Flagstaff, under the chairmanship of Dr. A. E. Douglass of the University of Arizona, was the need for a journal in which to publish the original data on which climatological conclusions and prehistoric dates are based. It was decided to publish a quarterly journal under the title "Tree Ring Bulletin", at \$1.50 a year. Dr. A. E. Douglass will be editor-in-chief; Dr. Waldo S. Glock, assistant editor; Dr. Harold S. Colton, managing editor; and John C. McGregor, assistant managing editor. The publication will be of immediate interest to archaeologists but will also deal with problems of climatology and other subjects to which tree ring studies are related.

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ARTICLES BY STATE AGRICULTURAL EXPERIMENT STATION WORKERS*

Alabama

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- TULLIS, E. C. The root-knot nematode on rice. Phytopathology 24(8): 938-942. Aug. 1934. (Cooperating with U. S. Dept. Agr.)

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- BORDEN, A. D. (With G. S. HENSILL, Univ. Calif.) A method of studying comparative oil deposits of proprietary oil emulsions. Jour. Econ. Ent. 27(4): 834-841. Aug. 1934.
- CRUESS, W. V., and JOSLYN, M. A. A method to age wine. Fruit Prod. Jour. and Amer. Vinegar Indus. 13(12): 365, 379. Aug. 1934.
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- FLANDERS, S. E. The secretion of the colleterial glands in the parasitic chalcids. Jour. Econ. Ent. 27(4): 861-862. Aug. 1934. (Scientific notes)
- SNYDER, W. C. A leaf, stem, and pod spot of pea caused by a species of Cladosporium. Phytopathology 24(8): 890-905. Aug. 1934.

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- THOMPSON, W. L. Non-arsenical stomach poisons for grasshopper control. Fla. Ent. 18(1): 5-10. April 1934.

Idaho

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Indiana

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- BULLARD, J. F. Streptococcic vegetative endocarditis in a small pig. Jour. Amer. Vet. Med. Assoc. 85(2): 260-261. Aug. 1934. (Clinical and case reports)

*Prepared in the Office of Experiment Stations Library

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HARRIS, H. M., and DECKER, G. C. Paper barriers for chinch bug control. Jour. Econ. Ent. 27(4): 854-857. Aug. 1934.

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PHILLIPS, C. D. The fruit outlook. Ky. State Hort. Soc. Trans. 78(1933): 60-64. [1934]
PRICE, H. B. Economic aspects of the fruit industry. Ky. State Hort. Soc. Trans. 78(1933): 53-60. [1934]
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- HALLIDAY, N. Further investigations concerning the new vitamin B growth-promoting factor for rats, found in whole wheat. Jour. Biol. Chem. 106(1): 29-40. Aug. 1934.

Minnesota

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- COULTER, S. T., and COMBS, W. B. The relation of the composition of butterfat to the churnability of cream. Jour. Dairy Sci. 17(8): 551-557. Aug. 1934.
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- GORTNER, R. A. Colloids in biochemistry: an appreciation of Thomas Graham. Jour. Chem. Educ. 11(5): 279-283. May 1934.
- HODSON, A. C. The apple maggot. Minn. Hort. 62(7): 133. July-Aug. 1934.
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- BOUGHTON, L. B., and HARDY, W. T. Contagious ecthyma (sore mouth) of sheep and goats. Jour. Amer. Vet. Med. Assoc. 85(2): 150-178. Aug. 1934.
- EZEKIEL, W. N., and TAUBENHAUS, J. J. Comparing soil fungicides with special reference to Phymatotrichum root rot. Science n.s. 79(2061): 595-596. June 29, 1934. (Special articles)
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Grapes and grape products. I. S. Thursby. (Fla. State Col. for Women, Ext. Circ. 35) Tallahassee, 1934.

Georgia

The trench silo. F. W. Fitch and G. I. Johnson. (Ga. Agr. Col. Ext. Circ. v. 22, no. 247.) Athens, 1934.

Suggestions relative to marketing eggs in Georgia. Produce a quality egg.

R. J. Richardson. (Ga. Agr. Col. Ext. Circ. v. 22, no. 249.) Athens, 1934.

Care of the growing stock. A. Gannon. (Ga. Agr. Col. Ext. Circ. v. 22, no. 250.) Athens, 1934.

Spray calendar for Georgia. Sprays and materials. T. H. McHatton. (Ga. Agr. Col. Ext. Circ. v. 22, no. 251.) Athens, 1934.

Winter legumes for fertilizer, feed and soil protection. E. D. Alexander.

(Ga. Agr. Col. Ext. Circ. v. 22, no. 252.) Athens, 1934.

Peach culture in Georgia. T. H. McHatton. (Ga. Agr. Col. Ext. Circ. v. 22, no. 253.) Athens, 1934.

Sweet potato culture. R. L. Keener. (Ga. Agr. Col. Ext. Circ. v. 22, no. 254.) Athens, 1934.

Pecan culture in Georgia. T. H. McHatton. (Ga. Agr. Col. Ext. Circ. v. 22, no. 256.) Athens, 1934.

Some common diseases of poultry. F. E. Mitchell and others. (Ga. Agr. Col. Ext. Circ. v. 22, no. 257.) Athens, 1934.

Idaho

The gable ceiling insulated laying house. C. E. Lampman, and others. (Idaho Agr. Col. Ext. Circ. 47.) Moscow, 1934.

Farm irrigation ditches, tools and structures. M. R. Kulp. (Idaho Agr. Col. Ext. Circ. 48.) Moscow, 1934.

The agricultural outlook for 1933-34. (Idaho Agr. Col. Ext. [unnumbered]) Moscow, 1933.

Illinois

How use contracted acres? Some questions and answers. J. C. Hackleman and C. M. Linsley. (Ill. Agr. Expt. Sta. Circ. 420.) Urbana, 1934.

The farm horse, its feeding, care and breeding. J. L. Edmonds and C. W. Crawford. (Ill. Agr. Expt. Sta. Circ. 424.) Urbana, 1934.

Tractor repair and maintenance. R. I. Shawl. (Ill. Agr. Expt. Sta. Circ. 425.) Urbana, 1934.

Iowa

Iowa agricultural outlook report for 1934. J. A. Hopkins and others. (Iowa State Col. Ext. Bul. 195.) Ames, 1933.

Use of contracted acres in the corn-hog program. (Iowa State Col. Ext. Bul. 197.) Ames, 1934.

The home vegetable garden. E. S. Haber. (Iowa State Col. Ext. Bul. 198.) Ames, 1934.

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(On agricultural adjustment progress in Kentucky)

The reopening of foreign markets for our agricultural products. By Henry A.
Wallace. Address before meeting of the American institute of cooperation,
Madison, Wis., July 11, 1934. 15 p. (Discussion statement no. 8, Agri-
cultural Adjustment Administration)

Wallace explains AAA tobacco program to Kentucky growers. Abstract of an
address at Hopkinsville Ky., July 31, 1934. 4 p.

Address of Rexford G. Tugwell over the Columbia broadcasting system, July 31,
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(In defense of the Agricultural adjustment administration.)

Address by Rexford G. Tugwell at Clemson College, South Carolina, August 15,
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Address by Rexford G. Tugwell before the Niagara county pioneer association,
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The future of American agriculture. Address by M. L. Wilson at Riddick
field, State college of agriculture and engineering, Raleigh N. C.,
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Agricultural Adjustment Administration

The Agricultural situation, some steps taken to help farmers through the
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on the Washington Star national radio forum, Aug. 1, 1934. 11 p.

Expanding domestic and foreign markets for tobacco. Address by J. B.
Hutson at the Annual farmers' convention, Raleigh, North Carolina,
Aug. 1, 1934. 13 p.

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**For a list of the principal series issued regularly see v. 4, no. 1-2,
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- Facing the fire-cured tobacco problem. Address by J. B. Hutson at the farmers' meeting at Twin Lakes, Virginia, Aug. 10, 1934. 9 p.
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- The new liberalism or the old. By Dr. Frederic Howe. 1934. 12 p. Address at Chautauque, N. Y., Tuesday, July 3, 1934.
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- Cooperating with Georgia ginner in reporting the grade and staple of cotton. By W. B. Lanham. 1934. 5p. Address, Georgia cotton ginner's association, Atlanta, Ga., May 24, 1934.
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- The drought situation, July 1, 1934. 26 p.
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- Marketing Texas tomatoes, brief review of the 1934 season. By W. D. Googe. 1934. 15 p. (Issued in cooperation with Texas department of agriculture, Markets division)
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Types of farming projects in relation to land-use planning. By C. L. Holmes. 1934. 10 p. Address, Western farm economics association, Berkeley, California, June 21, 1934.

United States average farm prices of dairy products, 1910-1934. The revised series and the method of their revision. By Roger F. Hale and John B. Shepard. 1934. 14 p. (Issued by Division of crop and livestock estimates)

Bureau of Animal Industry

Organization and principal activities. 1934.

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Dust explosion at the Wichita mill and elevator company plant (General mills, inc.) Wichita Falls, Texas, Mar. 13, 1934. By David J. Price. 1934. 13 p. (Prepared for publication in National fire protection association quarterly and Grain trade and milling journals)

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Preparation of invert sugar sirup by inversion with hydrochloric acid. 1934. 2 p. (Issued by Carbohydrate division)

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Bureau of Dairy Industry

Suggestions for improving the creamery butter industry. [1934] 4 p. (BDIM-641)

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Compiled by Howard Lawton Knight. Revised July 1, 1934. 64 p.

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NATIONAL AGRICULTURAL POLICIES SINCE THE WORLD WAR*

A bibliography compiled by Dr. Harald S. Patton, Michigan State College

A. Serial Publications of U.S. Dept. of Agriculture. Bureau of Agr. Economics.

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THE "LITERATURE CITED" OF PLANT GENETICS

The following review by Robert Cook, Editor of the Journal of Heredity appeared in the September 1934 issue of the Journal, pp. 375-377, under the title given above. It is reprinted here because of the interesting summary which it gives of the literature of plant genetics:

"The growth of an idea resembles in some respects the growth of an organism. Since ideas may be held to be biological phenomena this simile may not be too great a strain on reality. Thus in the case of plant genetics we may liken the fertilization of the egg to the discovery by the ancient Babylonians that plants are sexual organisms. This is followed by a long period during which the "embryo" remained in a dormant state with slow changes which eventually led to germination in the relatively short period between Cotton Mather's notes on fertilization in maize (1717) and Mendel's announcement of discrete heredity in 1866.* With the publication of Mendel's papers the "growing point" of plant genetics may be said to have reached above the ground and pushed forth its cotyledons. Some plants, notably those in an arid environment, have a very long "latent period" following emergence from the ground. From 1866 to 1900 was such an arid period in experimental attacks on problems of heredity and the new "plant" grew slowly. With the triple rediscovery of Mendel's Law in 1900 the juvenile stage was past and a more rapid growth commenced, which in the next 34 years has culminated in the robust and the astonishingly varied organism which is plant genetics today.

When we consider the varied techniques that are in use today in addition to the breeding plot and the progeny test of 30 years ago, we may

*Zirkle, Conway. Plant Hybridization Before Koelreuter. Jour. Hered., 25: 3-18. 1934.

THE "LITERATURE CITED" OF PLANT GENETICS

(continued)

be justified in considering that our "genetics plant" has indulged in a number of bud mutations. Thus we have what might be labelled the Evening-Primrose-Jimson-Weed mutation, which has enormously increased the growth rate of our knowledge of the effect of varying doses of "gene-pills" and their distribution in the "chromosome bottles." One branch of this "mutant" has given rise to laboratory species, as has recently been reported in the JOURNAL. We have the "X-ray-radium mutation," which has spread over all the world, and has set hundreds of investigators to shooting plant and animal genes and chromosomes with X-rays and radioactive particles. We have a mutation of cooperative research in the organized exchange of information among maize geneticists, which, while it may somewhat cramp the style of the rabid individualist, nevertheless greatly facilitates the accumulation of knowledge. We have had several mutations in cytological approach which have given us an enormous mass of new information about how genes and chromosomes behave in cell division. The implications of some of these discoveries are still a matter of no little controversy. In fact our "plant genetics plant" has grown so fast and had such a variety of bud mutations that it might be difficult to recognize it as a single organism had it not grown up almost before our eyes.

In the nature of a herbarium exhibit of progress in this field is a very important bibliography just issued by the Library of the U. S. Department of Agriculture.* The 10,156 entries listed therein are based mainly on the material in the catalogue in the library of the Bureau of Plant Industry and to some extent from the sources. No claim is made that the subject is completely covered, although an attempt has been made to limit the entries to really significant contributions. Bibliographies are rather dull reading but a glance through this one, if imaginatively undertaken, does have much of interest. The earliest reference noted is to Nati's description in 1674 of the Florentine bizzaria. This same graft hybrid is still in existence and until recently has been an enigma to plant physiologists.** Koelreuter's fifty-page "letter" on sex in plants is not available in the original in this library, but in a reprint issued at Leipzig in 1893. Eight other papers by Koelreuter concerning hybrids in phlox, foxglove, lobelia, datura, etc., are available in the original. Mendel's original paper is entry No. 6,106 in the list, and the papers announcing the triple rediscovery of his work by De Vries, Correns and Tschermack are Nos. 9384, 1802 and 9088. The references are, of course, both full and complete during the later years, when publication and distribution has been most active. The reference literature to these recent developments is almost overwhelming in amount. Thus, in the subject index under maize are over a page and a half of small type references to citations in the bibliography. Many of these entries also bear a star, which indicates a list of additional literature. The searcher for printed

*"A Bibliography of Plant Genetics." Compiled by Marjorie F. Warner, Martha A. Sherman, and Esther M. Colvin, of the Library of the U. S. Department of Agriculture. The United States Department of Agriculture Miscellaneous Publication No. 164. Washington, D. C., April, 1934., pp. 552. (For sale by the Superintendent of Documents, Washington, D. C. Price 50 cents.)

** Swingle, C. F. Graft Hybrids in Plants, Jour. Hered., 18: 73-94, 1927.

THE "LITERATURE CITED" OF PLANT GENETICS
(continued)

information has a long and tortuous path laid out before him. Thus we may say that this bibliography is essentially a skeleton résumé of the progress of plant genetics from its inception as a science in 1866. It extends only through 1930, so that it embraces the period from Mendel's work to the death of Karl Correns, the second of Mendel's rediscoveries.

References to A. G. A. Publications

This bibliography also gives an opportunity to evaluate, at least numerically, the place in the literature of plant genetics which is occupied by the publications of the American Genetic Association. There are 10,156 entries in the entire bibliography. By actual count 764 of these are to publications of our Association.† Thus 7.5 per cent of all citations are to these publications. The bibliography covers the publications of the entire world, and it seemed of interest to find what proportion of publications in this field originated in the United States. It seems likely that the bibliography is probably more complete for American references than for those of the rest of the world - but most of the important foreign publications are represented. Some difficulty was encountered in classifying a few of the publications, but the number was so small that the error would be insignificant. Of the 10,156 references 4,268 were published in the U. S. and 5,892 in other countries. Thus 42 per cent of all references originated in the United States. Of these, 17.25 per cent appeared in the publications of this Association.

Only a rough estimate was made of the number of publications listed in this bibliography. There were 130 publications (periodicals, proceedings, books, etc.) listed in 1,500 citations, taken as three samples in different parts of the book. Possibly twice as many would be found in the entire bibliography. When it is considered that this list includes not only periodical publications but the bulletins of the U. S. Department of Agriculture and of the experiment stations, in all parts of the world, books, articles in such magazines as Popular Science Monthly, and other miscellaneous publications, we may feel that our Association has taken no mean part in diffusion of knowledge regarding plant heredity. It is impossible of course, to arrive at a figure for the proportion of illustrative material listed in this bibliography which originally appeared in the JOURNAL, but there is no doubt that could this figure be computed, it would be considerably higher than the proportion of our material as a whole computed above. In textbooks on genetics, variation, and evolution the photographic illustrations reprinted from the JOURNAL run from 20 per cent to 50 per cent of all illustrations used.

Those whose support has made possible the publications of the JOURNAL may be encouraged by these dry statistics to feel that it has made a useful and significant contribution to the increase and diffusion of knowledge regarding plant genetics. That the contribution would be as large in the fields of genetics of animals and of man himself seems altogether likely. There is some reason for believing that it would be larger, in the latter field especially."

† The Journal of Heredity (1914-the American Breeder's Magazine (1910-1914), and the Proceedings of the American Breeder's Association (1904-1912).

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- HUTT, F. B., and CHILD, G. P. Congenital tremor in young chicks. *Jour. Heredity* 25(9): 341-350. Sept. 1934.
- JOHNSON, D. W., and PALMER, L. S. The appetite stimulating and growth promoting property of liver. *Jour. Nutrition* 8(3): 285-294. Sept. 10, 1934.
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- SANSTEADT, R. H. Diastatic activity in suspensions and doughs. Cereal Chem. 11(5): 532-535. Sept. 1934.
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New York (State)

- DAHLBERG, A. C. The American Dairy Science Association furnishes the dairy manufacturing industries with the latest data on scientific investigations at its annual meeting, June 26-28. Ice Cream Trade Jour. 30(7): 21-22. July 1934.

ARTICLES BY STATE AGRICULTURAL EXPERIMENT STATION WORKERS
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New York (Cornell)

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- ROMANOFF, A. L. The fertilized bird's egg as a physicochemical system. Poultry Sci. 13(5): 283-285. Sept. 1934.
- WILSON, J. K. Relative numbers of three species of Rhizobium in Dunkirk silty clay soil. Jour. Amer. Soc. Agron. 26(9): 745-748. Sept. 1934.

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- WURSTEN, J. L., and POWERS, W. L. Reclamation of virgin black alkali soils. Jour. Amer. Soc. Agron. 26(9): 752-762. Sept. 1934.

Pennsylvania

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ARTICLES BY STATE AGRICULTURAL EXPERIMENTS STATION WORKERS

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Tennessee

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Texas

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- REYNOLDS, E. B., KILLOUGH, D. T., and VANTINE, J. T. Size, shape, and replication of plats for field experiments with cotton. Jour. Amer. Soc. Agron. 26(9): 725-734. Sept. 1934.
- STEPHENS, J. C., and QUINBY, J. R. Anthesis, pollination, and fertilization in sorghum. Jour. Agr. Research 49(2): 123-136. July 15, 1934. (J. C. Stephens, U. S. Dept. Agr.)

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- RICHARDS, L. A., and BLOOD, H. L. Some improvements in auto-irrigator apparatus. Jour. Agr. Research 49(2): 115-121. July 15, 1934. (In coop. with U. S. Dept. Agr.)

Vermont

- BURIS, G. R. Long and short wave-length limits of photosynthesis. Plant Physiol. 9(3): 645-652. July 1934. Recd 9/5/34

Washington

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ARTICLES BY STATE AGRICULTURAL EXPERIMENT STATION WORKERS
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Washington (continued)

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- VANDECAVEYE, S. C., and VILLANUEVA, B. R. Microbial activities in soil. I. Nitrogen fixation by Azotobacter and activity of various groups of microbes in Palouse silt loam. Soil Sci. 38(3): 191-205. Sept. 1934.

West Virginia

- CANNON, H. C. Vitamin therapy in colds. W. Va. Acad. Sci. Proc. 10(1934) v. 7: 25. March 1934.
- DUSTMAN, R. B. Effect of ethylene, ethylene chlorohydrin and ultra-violet light on carbohydrate content of stored apples. Plant Physiol. 9(3): 637-643. July 1934. Recd 9/5/34
- GARBER, R. J., and HOOVER, M. M. Dehulled seed, glume color, and reaction to smut in a certain oat cross. Jour. Amer. Soc. Agron. 26(9): 673-680. Sept. 1934.

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- JOHNSON, J. Studies on the fermentation of tobacco. Jour. Agr. Research 49(2): 137-160. July 15, 1934.
- McCLUNG, L. S., and McCOY, E. Studies on anaerobic bacteria. I. A corn-liver medium for the detection and dilution counts of various anaerobes. Jour. Bact. 28(3): 267-277. Sept. 1934.
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- SCHULTZE, H. O., ELVEHJEM, C. A. and HART, E. B. The availability of copper in various compounds as a supplement to iron in hemoglobin formation. Jour. Biol. Chem. 106(2): 735-744. Sept. 1934.

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In the great conflagration that swept the Chicago Union Stock Yards on May 19, 1934, there was a property loss estimated at \$10,000,000 but in the words of Alvin H. Sanders, "no loss of buildings, however, regrettable, can for an instant be compared with that which was suffered by the livestock and agricultural world in the total destruction of the extraordinary collection of oil portraits that hung upon the walls of the Saddle and Sirloin Club, assembled through more than thirty years of faithful, loving service on the part of those who sought to do honor to the great men of animal husbandry history." The story of its foundation and evolution, and a poignant account of its destruction is told by Mr. Sanders in an article in "Country Gentleman" for September 1934.

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LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING SEPTEMBER 1934*

Alabama

- Slaughtering, cutting, and canning beef on the farm. R. S. Sugg and M. Garrett. (Ala. Poly. Inst. Circ. 145.) Auburn, 1934.
Mattress making. N. Pickens. (Ala. Poly. Inst. Ext. Circ. 147.) Auburn, 1934.

Arizona

- Manual for dairy club members. H. R. Baker and W. S. Cunningham. (Ariz. Agr. Col. Ext. Circ. 81.) Tucson, 1934.
References, p. 41.
Nineteenth annual [extension] report for the fiscal year ended June 30, 1933, including a report on project work to November 30, 1933. P. H. Ross. (Ariz. Agr. Col. Ext. Proj. Circ. 14.) Tucson, 1934.

Arkansas

- Measurement and calculation of field areas. D. G. Carter. (Ark. Agr. Col. Ext. Circ. 325.) 524 Post Office Bldg., Little Rock, 1934.
Beekeeping. W. J. Baerg. (Ark. Agr. Col. Ext. Circ. 326.) 524 Post Office Bldg., Little Rock, 1934.
Growing black locusts for posts. L. M. Turner. (Ark. Agr. Col. Ext. Circ. 327.) 524 Post Office Bldg., Little Rock, 1934.
Harvesting, marketing methods, and production policies for Arkansas strawberries. J. H. Heaman and O. J. Hall. (Ark. Agr. Col. Ext. Circ. 328.) 524 Post Office Bldg., Little Rock, 1934.
Annual report Extension Service, College of Agriculture, University of Arkansas and United States Department of Agriculture cooperating, fiscal year July 1, 1932 to June 30, 1933.... D. T. Gray. (Ark. Agr. Col. Ext. Circ. 329.) 524 Post Office Bldg., Little Rock, 1934.
Controlling garden insects. W. G. Amstein. (Ark. Agr. Col. Ext. Circ. 330.) 524 Post Office Bldg., Little Rock, 1934.
Points to be observed in buying a farm. E. B. Whitaker. (Ark. Agr. Col. Ext. Circ. 331.) 524 Post Office Bldg., Little Rock, 1934.
Food preparation. The canning budget for two people for one month. Demonstration number five for older club girls. Smith, R. M. (Ark. Agr. Col. Ext. 4-H Leaflet 8-R.) 524 Post Office Bldg., Little Rock, 1934.
The 1934 agricultural outlook for Arkansas farmers. (Ark. Agr. Col. Ext. Timely Agricultural Economic Facts for Arkansas farmers v. 3, Special number.) 524 Post Office Bldg., Little Rock, 1933.

Florida

- Interesting facts about home demonstration work in Florida. A summary of some accomplishments in 1933. Report compiled by Mary E. Keown. (Fla. State Col. for Women, Ext. Circ. 34.) Tallahassee, 1934.

Georgia

- Handbook for girls' section 4-H clubs. L. Turner. (Ga. Agr. Col. Ext. Bul. v. 2, no. 44.) Athens, 1934.
Forage crops for regular and emergency feeding. E. D. Alexander. (Ga. Agr. Col. Ext. Bul. 445.) Athens, 1934.

*Prepared in Library, Office of Experiment Stations

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING SEPTEMBER 1934
(continued)

Iowa

Program helps, 1933 edition. A service for community programs. (Iowa State Col. Ext. [unnumbered]) Ames, 1933.

Kentucky

4-H food project programs, units I, II and III. A. Burnam and E. Lacy. (Ky. Agr. Col. Ext. Circ. 189, rev.) Lexington, 1934.

Maryland

Barometers that point to dairy progress. T. B. Symons. (Md. Univ. [Agr.] Ext. Serv. [unnumbered]) 1934.

Michigan

Temporary silos for Michigan. C. H. Jefferson and A. J. Bell. (Mich. State Col. Ext. Bul. 141.) East Lansing, 1934.

Minnesota

The corn-crib or slat-fence silo; stack silage. (Minn. Univ. Agr. Ext. Folder 49.) University Farm, St. Paul, 1934.

Zoning of Minnesota lands. O. B. Jesness and R. I. Nowell. (Minn. Univ. Agr. Ext. Spec. Bul. 167.) University Farm, St. Paul, 1934.

Nebraska

Mash formulas for chicks and poults. F. E. Mussehl. (Nebr. Agr. Col. Ext. Circ. 1473.) Lincoln, 1934.

New Jersey

Lunches prepared at school. (N. J. Agr. Col. Ext. Bul. 143.) New Brunswick, 1934.

New York

Cornell poultry rations. G. F. Heuser. (N. Y. Agr. Col. (Cornell) Ext. Bul. 45, rev.) Ithaca, 1934.

List of publications for general distribution ... (N. Y. Agr. Col. (Cornell) Ext. Bul. 47, rev.) Ithaca, 1934.

Growing wood as a crop on New York farms. Part 2. Care & culture. J. A. Cope (N. Y. Agr. Col. (Cornell) Ext. Bul. 291.) Ithaca, 1934.

Twenty years of management of the Cornell University woodlots. A. B. Recknagel. (N. Y. Agr. Col. (Cornell) Ext. Bul. 292.) Ithaca, 1934.

Pickles and relishes. (N. Y. Agr. Col. (Cornell) Ext. Bul. 294.) Ithaca, 1934.

A reading list for parents prepared by the Department of Family life. (N. Y. Agr. Col. (Cornell) Ext. Bul. 303.) Ithaca, 1934.

North Carolina

Pastures in North Carolina. E. C. Blair and A. C. Kimrey. (N. C. Agr. Col. Ext. Circ. 202.) State College Station, Raleigh, 1934.

Ohio

The soil testing service. F. J. Salter. (Ohio Agr. Col. Ext. Circ. [unnumbered]) Columbus, 1934.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING SEPTEMBER 1934
(continued)

Oregon

Low cost menus for one month with recipes. (Oreg. Agr. Col. Ext. Bul. 471.)
Corvallis, 1934.

South Carolina

Address by Dr. R. G. Tugwell, Under Secretary of Agriculture, at Clemson College, South Carolina, Wednesday, Aug. 15, 1934. (Clemson Agr. Col., S. C. Ext. Circ. 133.) Clemson College, 1934.

Controlled production of cotton. W. W. Long. (Clemson Agr. Col., S. C., Ext. Circ. 134.) Clemson College, 1934.

Wisconsin

Wisconsin farming under adjustment. C. L. Christensen. (Wis. Agr. Col. Ext. Circ. 269.) Madison, 1934.

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CARD INDEX TO CORN LITERATURE

Some years ago Mary G. Lacy, now Librarian of the Bureau of Agricultural Economics, U. S. Department of Agriculture, and at one time Agricultural Librarian of the Iowa State College, prepared a card index of corn literature. The index was started in January 1916, at the request of Guy N. Collins, then botanist in the Office of Acclimatization and Adaptation of Crop Plants, Bureau of Plant Industry, and was carried on under a cooperative arrangement between that office and the Department Library. At the time Miss Lacy worked on the index she was Reference Librarian in the U. S. Department of Agriculture. When she went to Iowa in March 1919, the index was lent to the Iowa State College for several months in order that a copy might be made. Work on the index by the U. S. Department of Agriculture was discontinued in 1917. Up to that time the publications of the State agricultural experiment stations had been indexed and those of the State departments of agriculture in alphabetical order through Missouri. The bulk of the publications of the U. S. Department of Agriculture had been done as well as the references to corn in the catalogue of the Library of the Department.

Since corn is the leading product of Iowa, the Iowa State College is attempting to continue the work of Miss Lacy. It has assigned J. C. Cunningham, Professor of Horticulture, working under the direction of the Library, to the task of bringing down to date Miss Lacy's index. Professor Cunningham will commence by compiling an index to the literature published in 1931 and later years, and eventually hopes to work backward to complete the gap between 1917 and 1931. The Bibliography will include the publications of all countries in so far as ascertained. It is hoped that it will be possible to publish this index, possibly as an annual list.

This index is to be comprehensive and will include such subjects as pests, in so far as they are directly connected with injury to corn, and the products made from corn and corn stalks. The bibliography will be arranged alphabetically by subjects with an author index. The undersigned will be glad to answer any inquiries and to receive any suggestions. The cards indexed by Miss Lacy number about 21,000. Since the literature on corn has increased so enormously the last few years, it is probable that the cards prepared annually may amount to several thousand for each year covered. (Charles R. Brown, Librarian, Iowa State College)

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SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

of the U. S. Department of Agriculture
received during September 1934, exclusive of bibliographies*and current
issues of serials.**

Agricultural Adjustment Administration

Address on the code of fair competition for the wholesale fresh fruit and vegetable distributive industry. By R. C. Butner, Aug. 9, 1934. 8 p.
At the International apple association convention, Detroit, Michigan.

The A. A. A. - inventory and outlook. Address by Chester C. Davis over nation-wide hookup of Columbia broadcasting system, Aug. 30, 1934. 6 p.

The economic situation that grain and livestock farmers face in 1935. 1934. 15 p. Presented at Regional conferences to discuss the agricultural situation held in September 1934.

Field offices of the Agricultural adjustment administration. 1934. 10 p.

The land utilization program of the United States. A radio talk by Dr. L. C. Gray in connection with the program of the International association of game, fish, and conservation commissions, Montreal, Canada, Sept. 11, 1934. 8 p.

Possibilities for developing a practicable crop control program in 1935. 1934. 16 p. Presented at Regional conferences to discuss the agricultural situation held in September 1934.

The value of farm organizations. Radio talk by Chester C. Davis on the American farm bureau program, National farm and home hour, Sept. 8, 1934. 7 p.

Bureau of Agricultural Economics

Index numbers of prices received by farmers for farm products 1910 to 1934. Rev. 1934. Prepared by Arthur G. Peterson under the direction of O. C. Stine with the cooperation of the Division of crop and livestock estimates and the Division of fruits and vegetables. 1934. 64 p. (Issued by Division of statistical and historical research)

Is it practicable to scour wool near the source of origin? By Warner M. Buck. 1934. 4 p. (Issued by Division of livestock, meats and wool)

Monthly statistics relating to apple exports. Supplementary to summary of apple and pear export season 1933-34. Compiled in the Foreign agricultural service division under an allotment from the CWA(F4)... under the supervision of Archie C. Edwards. 1934. 54 p.

Bureau of Agricultural Engineering

The soil erosion problem in the North Atlantic states. By S. P. Lyle, 1934. 5 p. Prepared for the North Atlantic section of the American society of agricultural engineers.

*Bibliographies included in general list of bibliographies on page 325-326.

**For a list of the principal series issued regularly see p. 354.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
(continued)

Bureau of Chemistry and Soils

Bulletins, circulars and other publications of the Bureau of Chemistry and soils issued in Department of agriculture series. 1934. 11 p.

Publications of the Insecticide division, July 1, 1927 to August 31, 1934. 1934. 19 p.

Bureau of Dairy Industry

Address list of national and international dairy associations. 1934. 2 p.
(BDIM-475)

Carotene and vitamin A in the nutrition of dairy calves. By H. T. Converse and Edward B. Meigs. 1934. 4 p. (BDIM-645) (Issued by Division of dairy research laboratories)

Feeding cattle in the drought regions. 3 p. (BDIM-644)

Extension Service

The length of 4-H club membership. 1934. Extension service circular 199.

Progress of extension work in Rhode Island during the 5-year period 1928-33; a study of 408 farms and farm homes and of 166 non-farm homes in Newport, Providence, and Kent counties, R. I., 1933. By M. C. Wilson and George E. Adams. 1934. 24 p. Extension service circular 204.

Statistical results of cooperative extension work, 1933. By M. C. Wilson. 1934. 33 p. Extension service circular 200.

A survey of the agencies used and the methods of procedure followed by negro home demonstration agents (1) in carrying out their extension programs and (2) in measuring results of their work. By Erwin H. Shinn. 1934. 29 p. Extension service circular 201.

Forest Service

Forest statistics for western Oregon counties. 1934. 7 p. (Issued by Pacific northwest forest experiment station, Portland, Oregon)

Forest statistics for western Washington counties. 1934. 7 p. (Issued by Pacific northwest forest experiment station, Portland, Oregon)

Notes on soil erosion and reforestation in Italy; suggestions for American application. By Arthur C. Ringland. 1934. 11 p.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
(continued)

Bureau of Home Economics

Clothing economics. 1934. 14 p.

Report of the 1934 conference on cooperative meat and bird investigations.
1934. 6 p. In cooperation with the Bureau of animal industry.

Bureau of Plant Industry

Acid citrus fruits for the Gulf coast and eastern subtropical crops region.
By T. Ralph Robinson and E. M. Savage. Rev. 1934. 12 p. (issued by
Division of fruit and vegetable crops and diseases)

Cercospora foot rot of winter grains in the Pacific northwest. 1934. 10 p.
(Issued by Division of cereal crops and diseases)

Commercial date growing in the United States. 1934. 4 p. (Issued by Division
of fruit and vegetable crops and diseases)

Hydrangeas. By F. L. Mulford. 1934. 2 p. (Issued by Division of fruit and
vegetable crops and diseases)

Lily pools. By F. L. Mulford. 1934. 4 p. (Issued by Division of fruit and
vegetable crops and diseases)

Propagation of evergreens. By G. E. Yerkes. 1934. 10 p.

Report of winter survival of thirty wheat varieties in the eastern winter
hardiness nurseries for 1933-34. By J. W. Taylor. 1934. 3p. (Issued
by Division of cereal crops and diseases)

Rose propagation by cuttings. By G. E. Yerkes. 1934. 4 p.

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A gift of \$10,000 to build a library at the Georgia Normal and
Agricultural College for Negroes at Albany, Georgia, has been made by
Miss Caroline Hazard, of Peacedale, Rhode Island, well known as an edu-
cator and philanthropist. The gift was made to the city commission upon
agreement of an annual appropriation of \$300.00 for maintenance of the
library. (School and society, v. 40, no. 1031, Sept. 29, 1934)

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NOTES ON THE MIMEOGRAPHED AND MULTIGRAPHED PUBLICATIONS
OF THE U. S. DEPARTMENT OF AGRICULTURE

Historical

It cannot be definitely stated when the Department of Agriculture began to issue mimeographed and multigraphed publications. The earliest found in the Library files is the mimeographed Reference Book of the Bureau of Plant Industry for the period July 1, 1906-January 1, 1907. The inference is that this was issued in 1906, because a similar reference book for the period July 1, 1907-July 1, 1908 is dated 1907. The earliest periodical publication in this "near-print" form was probably the Cereal Courier of the Office of Cereal Investigations (formerly Office of Grain Investigations), Bureau of Plant Industry. The Library has a complete file from volume 4, 1912 to date and a few scattering numbers for 1911. It apparently began in 1909, but since no numbers of volumes 1 and 2 have been traced in the Department, the exact date of the first number is uncertain. The first mimeographed or multigraphed order from the Secretary's Office which could be found in the Library's files is dated November 12, 1912. Previous to that date these orders were printed. From reading the early reports of the Division of Publications, which are the best sources of information regarding the early history of mimeographed and multigraphed publications, the definite conclusion has been reached that the growth of the mimeograph and multigraph work had a direct connection with the abolition of the branch printing office of the Department. It may be merely a coincidence, but it seems significant that the first mimeographed publication which it has been possible to trace appeared in 1906, the period when the capacity of the branch printing office of the Department was reduced about one-third, and that the first mention of mimeographed publications of the Department was made in the report of the Division of Publications for the fiscal year 1910, which announced the abolition of the branch printing office. While the branch printing office controversy was apparently settled, another question simultaneously arose to take its place, for in this same fiscal year, 1910, appeared the preliminary report of the Joint Committee on Printing containing the following reference to the use of mimeographed and multigraphed material: "Some departments have installed, or are planning to install, multigraph printing sections, which to all intents and purposes will become practical printing offices. There seems to be a legitimate field for the use of a limited number of these machines in executing rush printing, such as bulletins, special orders, circulars, and form letters of the departments, but whether the use of these machines should be permitted for general printing operations is questionable."

Whether or not the abolition of the branch printing office in November, 1909, was the primary reason for the increase in the mimeograph and multigraph work of the Department it is certain that the next year marks the beginning of the extensive use of this form of publication by the Department. There were undoubtedly other contributing causes and some were perhaps equally important. Among these were the insufficiency of the printing appropriation, the development of the press service and other lines of work in which immediate publication of data was essential, and the growing need by bureaus for administrative blanks and circulars for their field work.

NOTES ON THE MIMEOGRAPHED AND MULTIGRAPHED PUBLICATIONS
OF THE U. S. DEPARTMENT OF AGRICULTURE
(continued)

In the fiscal year 1914 the drastic effort to force the Department publications into very few series also tended to make the bureaus resort to more mimeographing, since many of their less important publications could not very well be fitted into these formal series.

In 1920 the Joint Committee on Printing issued a report* on the mimeograph and multigraph work of the various departments. Probably this was more or less responsible for the consolidation in the Division of Publications of the addressing and duplicating work of the Department. This was ordered in the fiscal year 1921, though it was not until January 1, 1922, that the consolidated unit was thoroughly organized. Previously, much mimeograph and multigraph work was done in several of the bureaus but statistics of their work were not included in the reports of the Division of Publications.

The increase in the mimeograph and multigraph work from 1910 on, as recorded in the reports of the Division of Publications and the Office of Information, continued until the fiscal year 1933 when it met a set-back. The pages of mimeographed, multigraphed and rotaprinted work in the year dropped to 38,722,329 from the 65,579,615 pages in the previous year. The explanation of this large decrease is found in the "Economy Act of 1932". This reduced by 40 percent the amount of blank paper which the departments could procure from the Government Printing Office. The restriction was removed the following year, since a decision of the Comptroller General made it possible for the Government departments to purchase blank paper elsewhere than the Government Printing Office.

The particularly large increase in the mimeograph and multigraph work in the fiscal year 1934 was due principally to the emergency work of the Agricultural Adjustment Administration. The number of pages run for this organization during the year was 43,228,262, or 49 percent of the total pages run for the entire Department. In order to meet the demands in handling the rush work for the Agricultural Adjustment Administration, it became necessary September 12, 1933, to establish a night shift to work from 4 p. m. to 11:30 p. m.

Classes and Lists of Publications

The "near-print" publications of the Department fall into the following main classes, (1) press notices, (2) addresses, (3) statistical and market reports, (4) preliminary and confidential reports on various subjects, (5) circulars of information, (6) directories, (7) periodicals, (8) bibliographies.

Press notices present no problem as they are ephemeral in character. They are issued for the most part by the Office of Information and the Agricultural Adjustment Administration. Addresses emanate principally from the Office of the Secretary and the Agricultural Adjustment Administration but occasionally also from the bureaus, the statistical and market reports mostly from the Bureau of Agricultural Economics and the Agri-

*U. S. Congress. Joint Committee on Printing. Mimeographing and multigraphing. Reports submitted to the Joint Committee on Printing, 1920.2 pts.

NOTES ON THE MIMEOGRAPHED AND MULTIGRAPHED PUBLICATIONS
OF THE U. S. DEPARTMENT OF AGRICULTURE
(continued)

cultural Adjustment Administration, the preliminary and confidential reports from the various offices of the Department though most are of an economic character. Circulars of information which come from all of the bureaus are used largely in correspondence and for administrative purposes. Directories of personnel and locations of offices are for use in the Department and are of little interest outside. Periodicals or "house organs" are issued by many of the bureaus and offices. A list of those currently issued is given on pages 354-358, and a list of those discontinued, on pages 359-363. Bibliographies are issued principally by the Library and its branches in the various bureaus, though a number are also issued by other offices. Those issued in series are the Bibliographical Contributions of the Library of the Department, of which no. 23, ed. 2 is the last, and the Agricultural Economics Bibliographies issued by the Bureau of Agricultural Economics Library, of which no. 53 is the last. Lists of both series are available. The Bureau of Home Economics Library also has a numbered series of Home Economics Bibliographies, of which no. 8 is the last. Other bibliographies issued by the bureaus are unnumbered.

There is no complete list of the mimeographed and multigraphed publications of the Department. Since January, 1926, Agricultural Library Notes has contained in each issue a selected list of the more important current mimeographed and multigraphed publications. Agricultural Economics Literature contains as a special feature in each issue a list of the mimeographed publications of the bureau, and also the mimeographed addresses, radio talks and other publications of an economic character emanating from the Secretary's Office, the Agricultural Adjustment Administration, and other offices of the Department. The Division of Economic Information of the Bureau of Agricultural Economics issues a list of the "Agricultural economic reports and services" of the bureau which includes the mimeographed reports arranged by divisions. Botany Current Literature lists mimeographed publications of botanical interest. The other current bibliographical lists, namely, Agricultural Engineering Current Literature, Agronomy Current Literature, Cotton Literature, Entomology Current Literature, Forestry Current Literature, and Highways Current Literature, also include mimeographed publications, though no attempt is made to segregate these publications in the lists.

In general, it may be said that the mimeographed publications can be obtained only from the offices which issue them.

Arrangement

The Library maintains a complete file of all the mimeographed and multigraphed material which may be considered publications but it does not attempt to keep all the forms. The periodicals and numbered series are bound or put in binders and are arranged by themselves. The other, unnumbered, publications are with few exceptions filed in vertical filing cabinets. The whole collection of mimeographed and multigraphed publications is kept separate from the printed publications and is given a main classification number which distinguishes the collection from the printed publications. Under this classification number the publications are arranged by the offices which issued them and by series in the same way that the printed publications of the Department are arranged.

CURRENT MIMEOGRAPHED AND MULTIGRAPHED PERIODICALS*

Agricultural Adjustment Administration

Consumers' guide. [bi-weekly] [v. 1] no. 1- Sept. 14, 1933-

News digest. [weekly] v. 1, no. 1- Sept. 7, 1933-

Bureau of Agricultural Economics

(There are included here only the mimeographed periodical publications, not the crop and market reports. The reports may be found in a separate mimeographed publication issued by the Bureau: Agricultural economic reports and services of the Bureau of agricultural economics. Feb. 1934, latest)

Agricultural economics literature. [monthly] v. 1- Jan. 1927-

Issued by Library. Supersedes the Library supplement to B.A.E. news, no. 1-38, published Jan. 1923-Dec. 28, 1926.

The B. A. E. news. (semi-monthly) v. [1] no. 1- Aug. 10, 1918-

Published weekly prior to v. 29, no. 1, July 8, 1933. v. 1-3, Aug. 10, 1918-Dec. 21, 1920, have title: Information circular; v. 4-7, Jan. 4, 1921-Dec. 26, 1922, have title: The Bureau news.

Issued for the staff of the Bureau of agricultural economics. v. 1-5, no. 1, Aug. 10, 1918-July 5, 1921, issued for staff of Bureau of markets; v. 5, no. 2-v. 5, no. 9, July 12, 1921-Aug. 30, 1921, issued for the staff of the Bureau of markets and crop estimates; v. 5, no. 10-v. 6, Sept. 6, 1921-June 27, 1922, issued for the staffs of the Bureau of markets and crop estimates and Office of farm management and farm economics.

Cotton literature. [monthly] v. 1, no. 1- Jan. 1931-

Compiled by Division of cotton marketing branch library. Supersedes Current literature on cotton, published July-December, 1930.

Farm population and rural life activities. [quarterly] v. 1- Mar. 1, 1927-

Issued by Division of farm population and rural life.

Foreign crops and markets. [weekly] [v.1]- Mar. 13, 1919-

Mar. 13, 1919-Feb. 15, 1922, have title: Foreign crop and livestock reports. Published semi-monthly by Bureau of crop estimates from Mar. 13, 1919-June 30, 1921, and by the combined Bureau of markets and crop estimates from July 15, 1921-Feb. 15, 1922. Continuous series, nos. 1-70.

State and federal marketing activities, and other economic work. [weekly] v. [1]- Mar. 14, 1921-

v. [1] no. 1-16, Mar. 14, 1921-June 29, 1921, issued by Bureau of markets; v. [1] no. 17-v. 2, no. 26, July 6, 1921-June 28, 1922, issued by Bureau of markets and crop estimates.

Bureau of Agricultural Engineering

Agricultural engineering; current literature. [monthly] v. 1, no. 1- Aug. 1931- Issued by Library.

*List compiled by Janice S. Brown.

CURRENT MIMEOGRAPHED AND MULTIGRAPHED PERIODICALS
(continued)

Bureau of Animal Industry

Average salvage received for reactors [monthly] Jan. 1925-

The extension animal husbandman. [quarterly] no.1- Mar. 1926-
Issued by Animal husbandry division.

Statement of indemnity claims and averages in cooperative extension work.
[monthly] Aug. 1924-
Issued by Tuberculosis eradication division.

Summary of avian tuberculosis work in cooperation with the various states.
[monthly] Feb. 1932-
Issued by Tuberculosis eradication division.

Summary of tuberculosis eradication work in cooperation with the various
states. [monthly] Feb. 1923-
Issued by Tuberculosis eradication division.

Bureau of Animal Industry. Packers and Stockyards Administration.

Monthly record. v. 1, no. 1- Jan. 1924-

Bureau of Biological Survey

Bird banding notes. [irregular] v. 1, no. 1- Apr. 15, 1922-

The survey. [monthly] v. 1, no. 1- Jan. 1920-

Bureau of Dairy Industry

Dairy-herd-improvement-association letter. [monthly] [v.1]- May 1925-
v. [1]-2, no. 7, May 1925-July 1926 issued by Bureau of dairying; v. 2,
no. 8-date, Aug. 1926-date, issued by Division of dairy herd improvement
investigations, Bureau of dairy industry. v. [1]-3, no. 7, May 1925-July
1927 have title: Cow testing associations. Cow testing association letter.

Bureau of Entomology and Plant Quarantine

Entomology: current literature. [bi-monthly] v. 1, no. 1- Jan./Feb. 1932-
Issued by library. v. 1-v. 3, no. 3, Jan./Feb. 1932-May/June 1934 issued
by Bureau of entomology.

Insect pest survey bulletin. [monthly] v. 1, no. 1- May 1, 1921-
Issued by Division of insect pest survey. v. 1-v. 14, no. 4, May 1, 1921-
June 1, 1934 issued by Bureau of entomology.

News letter. [monthly] v. 1, no. 1- Aug. 1, 1934-
Supersedes Bureau of entomology. Monthly letter; Bureau of Plant Industry
The blister rust news; and Bureau of plant quarantine. News letter.

CURRENT MIMEOGRAPHED AND MULTIGRAPHED PERIODICALS
(continued)

Office of Experiment Stations

List of station publications received during Nov. 1903- [monthly]

Issued by Library. Numbers were printed previous to June 1913. Nov. 1903-Dec. 1906, bimonthly. June 1915-May 1923 issued by States relations service. Aug. 1921-May 1923 have title: List of station publications received by State relations service.

Porto Rico. Agricultural experiment station

Agricultural notes. [monthly] 1-65; n.s. no. 1- Feb. 1, 1919-Feb. 15, 1924; Apr. 15, 1924-

No. 1-65, Feb. 1, 1919-Feb. 15, 1924, have title: Agricultural extension notes. no. 1-16, semi-monthly. Issued by Office of farm management.

Virgin Islands. Agricultural experiment station. St. Croix

Agricultural news notes. [weekly] no. 1- Nov. 5, 1931.

Extension service

Agricultural economics extension. no. 1- June 8, 1931-

Issued by Office of cooperative extension work. Irregular.

The extension pathologist. [irregular] v. 1-7; n. s. serial no. 1- Nov. 24, 1923-

Issued at irregular intervals by the Office of cooperative extension work in cooperation with the Bureau of plant industry.

Food and Drug Administration

Food and drug review. v. 2, no. 2- Apr. 1918-

Takes the place of the Clearing house letter and the Monthly summary of regulatory work. v. 2, 2-v. 11, no. 6, Apr. 1918-June, 1927, issued by Bureau of chemistry. Title varies: v. 2, no. 2-v. 5, no. 8, Apr. 1918-Aug. 1921, Monthly review of the Bureau of chemistry; v. 12, no. 3-v. 14, no. 6, Mar. 1928-June, 1930, Food, drug, and insecticide review.

Forest service

Accessions to the Library. [weekly] Nov. 17, 1923-

Issued by Forest products laboratory, Madison, Wis. Nov. 17, 1923-May 30, 1924, have title: Accessions to the files of the Forest products laboratory.

Forestry: current literature. [bi-monthly] Nov. 1909-

Issued by library. May 1910-July 1919 printed. May 1910-Dec. 1927 have title: Current literature: Monthly List. Mar. 1922-Mar. 1927 issued in Journal of forestry. Discontinued temporarily with Sept./Oct. 1932 issue. Resumed publication in Jan. 1934, with Nov. 1932/June 1933 and July/Dec. 1933 issues. Began new series, v. 1, no. 1- Jan./Feb. 1934-

CURRENT MIMEOGRAPHED AND MULTIGRAPHED PUBLICATIONS

Forest Service
(continued)

Monthly report. Dec. 1923-

Issued by Branch of research. May-Oct. 1926 have title: Combined monthly report.

Service bulletin. [weekly] v. 1, no. 1-Nov. 15, 1917-

Nov. 15, 1917-Dec. 27, 1920 have title: Weekly bulletin.

Grain Futures Administration

Trade in grain futures. [monthly] v. 1, no. 1-July 1931-

Preceded by two unnumbered issues.

Office of Information

Daily digest. v. 1, no. 1-Mar. 24, 1921-

Issued by Press service.

Library

Agricultural library notes. [monthly] v. 1, no. 1- Jan. 1926-

Discontinued temporarily with v. 7, no. 7/10, June Oct. 1932.

Resumed publication with v. 8, no. 1, July, 1933.

Newsletter. New series, v. 1, no. 1-Jan. 16, 1931-

Bureau of Plant Industry

Agronomy: current literature. [bi-weekly] v. 1, no. 1/2-Jan. 1926- v. 9

Issued by Library.

Dec. 10-21

Botany: current literature [bi-weekly] no. 1-Jan. 31, 1919-

Issued by Library. nos. 1-151, Jan. 31, 1919-Dec. 27, 1924, have title:

Current author entries; nos. 152-183, Dec. 29, 1924-Mar. 20, 1926, have title: Current botanical literature. Began volume numbering with v. 9, 1927.

Cereal courier [semi-monthly] v. 4-April 6, 1912-

Of v. 1-3 Library has only a few scattered nos., of which June 17, 1911, is earliest. v. 4-7, p. 52, Apr. 6, 1912-May 7, 1915, have title:

Newsletter; v. 7, p. 53 - end, May 14, 1915-Dec. 4, 1915, have title:

Notes; v. 8-9, Jan. 7, 1916-Aug. 10, 1917, have title: Cereal review.

Issued by Division of cereal crops and diseases. Name of Division varies:

Grain investigations, Office of cereal investigations, etc. Varies in frequency of publication.

Cotton division news. [monthly] v. 1, no. 1-July 1934-

Issued by Division of cotton and other fiber crops and diseases.

CURRENT MICROGRAPHED AND MULTIGRAPHED PUBLICATIONS

Bureau of Plant Industry
(continued)

Egyptian cotton news letter [weekly] June 7, 1921-

Issued by Division of Egyptian cotton breeding. June 7, 1921-Apr. 3, 1929; issued by Office of alkali and drought resistant crops.

Forage crop gazette [monthly] Apr. 2, 1916-

Issued by Division of forage crops and diseases. Varies in frequency of publication.

Imports of forage plant seeds. [bi-weekly] Apr. 2, 1923-

Issued by Division of seed investigations.

Plant disease reporter [semi-monthly] [v. 1]-Aug. 15, 1917-

Issued by Division of mycology and disease survey. V. 1-8 issued by Plant disease survey; v. 9 by Office of plant disease survey and pathological collections. v. 1-6, Aug. 15, 1917-Dec. 1, 1922, have title: The plant disease bulletin.

Plant disease reporter. Supplement. no. 1-1919-

Issued by Division of mycology and disease survey. Irregular.

Semi-monthly news-letter. v. 1-Mar. 1, 1929-

Issued by Division of fruit and vegetable crops and diseases. v. 1-v. 5, no. 12, Mar. 1, 1929-June 15, 1933, issued by Division of horticultural crops and diseases. Continues V. & F. pathologist and The Eye.

Weekly reports. v. 1-1911-

Issued by Division of western irrigation agriculture. v. 1-28, 1911-1926, issued by Offices of western irrigation agriculture and demonstration on reclamation projects. v. 1-21, 1911-1922, have title: Weekly bulletin.

Weekly station reports. April 1, 1916-

Issued by Division of dry land agriculture. Name of Division varies slightly. Library has also scattered reports from 1912-1915, the earliest of which is July 13, 1912.

Bureau of Public Roads

Highways: current literature. [weekly] [v. 1]-Nov. 1, 1921-

Issued by Library. [v. 1]-v. 5; no. 23; Nov. 1; 1921-June 15, 1926, have title: Contents of new periodicals in Public roads library. v. 5, no. 24-v. 6, no. 15, June 23, 1926-Apr. 13, 1927, have title: Highways and rural engineering: current literature; v. 6; no. 16-v. 10, no. 26, Apr. 20, 1927-June 24, 1931, Highways and agricultural engineering: current literature.

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DISCONTINUED SERIES - MIMEOGRAPHED AND MULTIGRAPHED PERIODICALS*

Bureau of Agricultural Economics

Agricultural cooperation. Semi-monthly. v. 1-7. Nov. 18, 1922-Dec. 28, 1929.
Issued by Division of cooperative marketing. v. 7, no. 22-26, Nov. 2-Dec. 28, 1929, issued by Federal farm board, to which Division was transferred, Oct. 1, 1929. No more published.

Bureau of Agricultural Engineering

Monthly news letter. v. 1, no. 2-11. Aug. 1931-May 1932. No more published.

Bureau of Animal Industry

Bureau range finder. Dec. 21, 1918-Sept. 15, 1930.
Issued weekly Dec. 21, 1918-Dec. 29, 1923: Issued semi-monthly Jan. 15, 1924-Aug. 15, 1928. None received between Aug. 15, 1928, and Sept. 15, 1930.

Monthly summary of hog-cholera control stations. Sept. 1922-Apr. 1924.
Issued by Division of hog-cholera control. No more published.

Report showing status of tick eradication in various states. [monthly]
Sept. 1922-June 1927.
Issued by Tick eradication division. No more published.

The weekly record. v. 1-v. 2, no. 33. Jan. 7, 1924-Aug. 17, 1928.
No more published. Issued by Packers and stockyards administration. Confidential information for employees.

Bureau of Chemistry and Soils

The C & S contact. [monthly] v. 1, no. 1-8. Dec. 15, 1931-July 15, 1932.
No more published.

Clearing house letter. v.[1]-2, no. 5. Jan. 1917-May 1918. 1917-18
No more published. Combined with Monthly summary of regulatory work under title: Monthly review of the Bureau of chemistry, which later became Food and drug review.

Monthly summary of regulatory work. no.1-11. 1917-18.
No more published. Combined with Clearing house letter under title: Monthly review of the Bureau of chemistry, which later became Food and Drug review.

*List compiled by Janice S. Brown.

DISCONTINUED SERIES - MIMEOGRAPHED AND MULTIGRAPHED PERIODICALS

Bureau of Chemistry and Soils
(continued)

Review of United States patents relating to pest control. [monthly] v. 1, no. 1-v. 6, no. 1, Jan. 1928-Jan. 1933.

No more published. Issued by Insecticide division.

Bureau of Dairy Industry

Milk inspector letter. [monthly] no. 56-159. Dec. 1921-April 1932.

No. 56-83, Dec. 1921-May 1924, issued by Dairy division, Bureau of animal industry; no. 84-105, July 1924-June 1926, by Bureau of dairying; no. 106-159. July 1926-April 1932, by Division of market-milk investigations, Bureau of dairy industry. No more published.

Milk plant letter. [monthly] no. 1-197. Mar. 1914-Dec. 1932.

No. 1-122, Mar. 1914-June 1924, issued by Dairy division, Bureau of animal industry; no. 123-142, July 1924-June 1926, by Bureau of dairying; no. 143-197, July 1926-Dec. 1932, by Division of market-milk investigations, Bureau of dairy industry. No more published.

Bureau of Entomology

News-letter of the Office of cereal and forage insect investigations. [monthly] v. 1-v.2, no. 2. April 1, 1913-Feb. 1, 1914.

Continued by the News letter of the Bureau of entomology of which the title changed with no. 12, April 1915, to Monthly letter.

Monthly letter no. 1-241. Mar. 1914-June 30, 1934.

No. 10-16 printed; no. 1-11 have title: News letter.

Superseded by Bureau of entomology and plant quarantine. News letter.

Office of Experiment Stations

Agricultural education monthly. v. 1-2, 1915-16.

Superseded by a series of Department documents under title: Secondary school agriculture.

Extension Service

Boys' and girls' 4-H club leader. [monthly] v. 1-4, no. 3. Jan. 1927-Apr. 1930.

Issued by Office of cooperative extension work. No more published.

Superseded by Extension service review.

Here and there with the home demonstration worker. no. 1-16. May 8-Nov. 29, 1929.

Issued by Office of cooperative extension work.

DISCONTINUED SERIES - MINEOGRAPHED AND MULTIGRAPHED PERIODICALS

Extension Service
(continued)

List of extension publications of the state agricultural colleges received.
Jan. 1918-Dec. 1931.

Prepared by the Office of Experiment Stations Library. (Jan. 1918-May 1923 compiled by the States Relations Service Library) June 1923-Aug. 1923 have at head of title: U. S. Dept. of agriculture. Office of director of extension work, Cooperative extension work; Sept. 1923-Dec. 1931, U. S. Dept. of agriculture, Extension service, Office of cooperative extension work.

Office of Farm Management

Farm management monthly. v. 1-v. 3, no. 5. Aug. 1913-May, 1915.

No more published.

Federal Horticultural Board

Letter of information... v. 1, no. 1-12. July 1, 1924-Jun 15, 1925.

v. 1, no. 1-3, July 1, 1924-Sept. 1, 1924, have title: Monthly letter of information. Frequency of publication varied slightly during year. No more published. Not for general distribution. Confidential.

Forest Service

Forest worker. v. 1-2. Sept. 1924-Nov. 1926.

Later volumes issued in printed form.

Library

Library notes. no. 1-6. April 1917-May 1918.

Office of Personnel and Business Administration

The administrative bulletin. monthly v. 1-v.2, no. 5. Aug. 1931-May 1932.

No more published.

Bureau of Plant Quarantine

News letter. [monthly] no. 1-43. Jan. 1931-June 1934.

No. 1-18, Jan. 1931-June 1932, issued by Plant quarantine and control administration. Superseded by Bureau of entomology and plant quarantine. News letter.

DISCONTINUED SERIES - MIMEOGRAPHED AND MULTIGRAPHED PERIODICALS
(continued)

Bureau of Plant Industry

The blister rust news. [monthly] v.[1]-18. Aug. 15, 1917-June 1934.

Issued by Division of blister rust control.

Superseded by Bureau of entomology and plant quarantine news letter.

The extension horticulturist. May 1920-Jan. 1927.

Issued by Office of horticulture and Extension service, cooperating. Dec. 1920-Aug. 1923, issued by Office of horticultural and pomological investigations and States relations service cooperating; Sept. 1923-Oct. 1923, by Office of horticultural and pomological investigations and Extension service, cooperating; Nov. 1923-June 1926, by Office of horticultural investigations and Extension service cooperating. No more published.

The eye. Weekly potato bulletin. June 24, 1916-Oct. 27, 1928.

Issued by Office of horticultural and pomological investigations.

Name of Office varies. No more published. Continued by Division of fruit and vegetable crops and diseases. Semi-monthly news-letter.

News notes. v. 7-13, no. 1. Apr. 18, 1918-Apr. 19, 1924.

Issued by Office of cotton, truck and forage crop investigations.

Name of Office varies. No more published.

Recorder. v. 1-3, Feb. 21, 1914-Aug. 14, 1915.

Issued by Office of grain standardization. No more published.

The rust reporter. [weekly] [v. 1]-13. Apr. 29, 1921-July 18, 1933.

Issued by Division of barberry eradication during summer months,

V. 9 issued by Office of cereal crops and diseases; V. 10, no. 1-5 issued by Office of barberry eradication. No more published.

Stem rust and barberry news. [semi-monthly] v. 1-v. 3, no. 1. May 15, 1930-Jan. 25, 1932.

Issued by Division of barberry eradication.

No more published.

The V. & F. pathologist semi-monthly v. 1-2, no. 3. Dec. 1927-Feb. 1, 1929.

Issued by Office of vegetable and forage diseases. No more published.

Continued by Division of fruit and vegetable crops and diseases. Semi-monthly news-letter.

Office of Public Roads and Rural Engineering

Field letter. no. 1-37. Feb. 1915-July 1918.

no. 1-4 have title: News letter to the field men. no. 37 issued by Bureau of public roads.

DISCONTINUED SERIES - MIMEOGRAPHED AND MULTIGRAPHED PERIODICALS

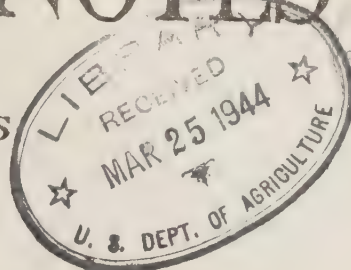
Office of Public Roads and Rural Engineering
(continued)

The news letter of the Bureau of public roads. [monthly] v. 1-v. 5, no. 1.
Nov. 1925-Nov. 1929.
No more published.

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AGRICULTURAL LIBRARY NOTES

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ISSUED MONTHLY
BY THE
UNITED STATES DEPARTMENT OF AGRICULTURE LIBRARY

WASHINGTON
D. C.

AGRICULTURAL LIBRARY NOTES

Vol. 9

November 1934

No. 11

PRINCIPAL LIBRARY ACCESSIONS

Agricultural education

- BOONE, G. T. Work book for normal training agriculture. [Fairbury? Neb.] 1934.
BOONE, G. T. Work book for vocational agriculture. [Fairbury, Neb.] 1934.
CONGRES INTERNATIONAL DE L'ENSEIGNEMENT AGRICOLE. 4th, Rome - Milan, 1932.
Actes. Rome, Office international de l'enseignement agricole, 1934.
McINTOSH, D. C., ed. Agriculture for secondary schools. New York, American book company, 1934.

Alcoholic liquors

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CONGRESSES

Argentine Republic. Department of Agriculture. International Committee of Agricultural Schooling. Vth International Congress of Agricultural Schooling, under the auspices of his Excellency, the President of the Nation, General Augustin P. Justo. Congreso Nacional, Buenos Aires, October 1935.

Third International Congress of Soil Science, Oxford, England, July 30-August 7, 1935. The Congress will be held by the International Society of Soil Science under the general patronage of the International Institute of Agriculture, Rome. Secretary of Organizing Committee, Mr. G. W. Jacks, Imperial Bureau of Soil Science, Harpenden, England.

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A DAY IN A FOREST SERVICE REGIONAL LIBRARY

By E. Maude Stone, Regional Librarian, Forest Service, Portland, Oregon

On the stroke of 8:30 the forestry librarian enters the library in the Federal Building to take up her duties for the day. As she turns to her desk, she pushes aside a bibliography on forest roads that she had been compiling the previous afternoon, in order to open the morning's mail. The supervisor of the Ochoco National Forest writes for information on the selection and preservation of mine timber; the technical assistant on the Siuslaw Forest asks for articles dealing with the interpretation of airplane photography; a high school student wants references on light burning; the landscape engineer needs references on aerial tramways; and a junior forester asks for a certain article on geology, to be used in connection with a watershed protection study of the Little Wenatchee River region. There are letters from other supervisors, junior foresters, rangers, and from people outside of the Forest Service, not only in the district, but from distant places, and there are two letters with foreign post marks.

The librarian turns from her mail to greet a newspaper writer who has rushed in for some photographs of forest fires. While selecting suitable pictures, there are more interruptions. A business man, planning a summer vacation for his family, asks for a set of our forest map-folders. There is also a small boy waiting, who has evidently slipped quietly away from his duties in a public school nearby. He explains that he has decided to be a forest ranger, and wants a book that will tell him all about it.

Next comes a telephone call from an assistant regional forester, asking for statistics on the cost of living and the purchasing power of the dollar, to be used "in connection with the returns to the sheep and cattle industry, their operation, and the remission thereto of the fees charged on various types of grazing lands." A bulletin issued by the Department of Labor containing this information is borrowed from the Public Library for him.

Then comes a call from a Southern Pacific official for information about Port Oxford cedar. He is told that he might consult a bibliography that the librarian had recently compiled for another purpose. A few minutes later a telephone call comes from the Products Division of the local Forest Experiment Station asking for references on Oregon white oak. The regional engineer comes in to ask for published articles on the use of calcium carbonate used as a dust preventive on dirt roads.

During a lull, the librarian again turns to her mail, opening packages of new photographs, new books, pamphlets, and lumber trade magazines. She quickly goes through the magazines and routes them to individuals, calling their attention, by attached slips, to the articles that may be of special interest to them. She goes over reviews of new books, classifies books and pamphlets, makes out catalog cards, indexes magazine articles - all the while intermittently furnishing information to people who call in person or over the telephone. She then reaches for the bibliography she had left the afternoon before, in order to add a few more titles to it, when the clock strikes 4:30 and the forest librarian's day is over.

Although this is a special picture of one day in one particular regional forest office library, it is characteristic of them all.

The work of a regional librarian depends upon a knowledge of all sources of information on forestry and its allied subjects; the use of state, government, and foreign documents; indexes and bibliographies. She must

A DAY IN A FOREST SERVICE REGIONAL LIBRARY
(continued)

know how to locate a magazine article wanted, whether it appeared last month or twenty years ago, and she must do this in a short period of time. She must know also the library resources of her own city, district, state, and the country as a whole, so that material not available even in her own city can be obtained through photostatic service from the library having it. She must also establish friendly relations with other professional librarians, so that their libraries will lend to her, as a librarian, books that no one else as an individual would be able to get. Forestry librarianship, therefore, means the collection and the organization of information, with the ability to use it in order to help other people in their "hour of need."

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Miscellaneous

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U. S. Department of Agriculture

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The marketing of agricultural products; a selected list of hearings of the 73d Congress on marketing and related subjects. Comp. by Vajen E. Hitz, Library, Bureau of Agricultural Economics. 3 p. Aug. 3, 1934. Typewritten. May be borrowed for copying.

Sugar: some references on the economic aspects of the industry, selected from Agricultural economics literature, Jan. 1931-June 1934. Comp. in the Library, Bureau of agricultural economics. 27 p. Aug. 10, 1934. Typewritten. May be borrowed for copying.

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A list of American economic histories. Comp. by Everett E. Edwards, Division of Statistical and Historical Research. 17 p. Sept. 1934. A revision of a publication with the same title, dated October 1931.

Forest Service:

A selected list of books on forestry and forest products in the English language for public libraries. Comp. by E. Maude Stone. 1934. 13 p.

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LOST BOOKS

The books listed below cannot be found. It will be appreciated if anyone having information in regard to them will notify the Loan Desk of the main Library.

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----- A German-English dictionary for chemists. 1st ed. with addenda. 1924. (Copy 2)
- Webel, A. A German-English technical and scientific dictionary. 1930. (Copy 3)
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LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING OCTOBER 1934*

California

Diseases of sheep. J. A. Howarth. (Calif. Agr. Col. Ext. Circ. 86) Berkeley, 1934.

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Fruits and fruit by-products as dairy cattle feeds. W. M. Regan and G. E. Gordon. (Calif. Agr. Col. Ext. [unnumbered] Berkeley [1934?])

Connecticut

4-H club work: The neat club girl. E. Van Cleef and E. Trabue. (Conn. Agr. Col. Ext. Bul. 194.) Storrs, 1933.

Florida

Saving the sweet potato crop. J. L. Smith. (Fla. Univ. Agr. Ext. Circ. 36.) Gainesville, 1934.

Idaho

Turkey growing in Idaho. P. Moore, and others. (Idaho Agr. Col. Ext. Bul. 94.) Moscow, 1934.

Illinois

Crop yields from Illinois soil experiment fields in 1933, together with a general summary for the four-year period ending in 1933. F. C. Bauer. (Ill. Agr. Expt. Sta. Bul. 402.) Urbana, 1934.

Coccidiosis of poultry, known also as bloody diarrhea or range paralysis... R. Graham and J. P. Torrey. (Ill. Agr. Expt. Sta. Circ. 288, rev.) Urbana, 1934.

Cheaper and more profitable pork thru swine sanitation. A review of the McLean county system of swine sanitation on Illinois farms. E. T. Robbins. (Ill. Agr. Expt. Sta. Circ. 306, rev.) Urbana, 1934.

Raising chicks at a profit. L. E. Card. (Ill. Agr. Expt. Sta. Circ. 329, rev.) Urbana, 1934.

Test your soil for acidity. C. M. Linsley and F. C. Bauer. (Ill. Agr. Expt. Sta. Circ. 346, rev.) Urbana, 1934.

Selecting dairy cattle. W. B. Nevens and A. F. Kuhlman. (Ill. Agr. Expt. Sta. Circ. 422.) Urbana, 1934.

Suggestions for teaching dairy cattle selection. A. F. Kuhlman and W. B. Nevens. (Ill. Agr. Expt. Sta. Circ. 422, Supp.) Urbana, 1934.

Late-sown emergency feed crops for Illinois, soybeans, cowpeas, corn, Sudan grass, rye, millet, sorghum, rape, buckwheat. L. H. Smith. (Ill. Agr. Expt. Sta. Circ. 423.) Urbana, 1934.

A plan for the farm family food supply. G. A. Henderson and J. Outhouse. (Ill. Univ., Agr. Ext. [unnumbered]) Urbana, 1934.

The year's food supply and the home garden. How much to eat, to preserve, to plant, a suggestion. G. A. Henderson and J. Outhouse. (Ill. Univ., Agr. Ext. [unnumbered] [revised]) Urbana, 1934.

*Prepared in the Office of Experiment Stations Library.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING OCTOBER 1934
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Kansas

Inexpensive silos for Kansas. J. W. Linn and others. (Kans. Agr. Col. Ext. Circ. 94, rev.) Manhattan, 1934.

Kentucky

Outlines for 4-H club canning, units I, II, III and IV. A. Burnam and E. Lacy. (Ky. Agr. Col. Ext. Circ. 181, rev.) Lexington, 1934.
4-H food manual. E. Lacy. (Ky. Agr. Col. Ext. Circ. 190, rev.) Lexington, 1934.
Annual report of the Extension Division for the year ended December 31, 1933. T. R. Bryant. (Ky. Agr. Col. Ext. Circ. 273.) Lexington, 1934.

Maine

Controlling parasites in horses. J. F. Witter. (Maine Agr. Col. Ext. Bul. 212.) Orono, 1934.

Massachusetts

Clothing handbook for junior 4-H members. M. E. Forbes. (Mass. State Col. Junior Ext. Leaflet 18 [rev.]) Amherst, 1934.
The Farley 4-H club house. (Mass. State Col. Ext. [unnumbered]) Amherst, 1934.

Michigan

Food preparation for 4-H clubs. 4-H food preparation clubs for first and second year clubs. Boys' and girls' club department. (Mich. State Col. Ext. Club Bul. 15, 2d rev.) East Lansing, 1934.
References, p. 48.
More alfalfa for Michigan. R. E. Decker. (Mich. State Col. Ext. Bul. 23, rev.) East Lansing, 1934.
Farm manure, value and care. E. C. Sackrider. (Mich. State Col. Ext. Bul. 71, rev.) East Lansing, 1934.
Chicory, its culture and uses. H. C. Rather. (Mich. State Col. Ext. Bul. 127, rev.) East Lansing, 1934.
References, p. 14.
The mare and foal. R. S. Hudson. (Mich. State Col. Ext. Bul. 128, rev.) East Lansing, 1934.
Michigan State college, Home economics extension service, projects for 1934-35. L. A. Lynde. (Mich. State Col. Ext. Circ. [unnumbered]) East Lansing, 1934.

Minnesota

Water distribution systems for the farm. A. G. Tyler. (Minn. Univ. Agr. Engin. News Letter no. 30.) University Farm, St. Paul, 1934.
Control of leaf spot of sugar beets. E. L. LeClerc. (Minn. Univ. Agr. Ext. Circ. 46.) University Farm, St. Paul, 1934.
The Frazier-Lemke farm bankruptcy act. W. B. Silcox. (Minn. Univ. Farm Business Notes no. 141, p. 1-3.) University Farm, St. Paul, Sept. 1934.
Mimeographed.
Farm building plans. H. B. White and M. G. Jacobson. (Minn. Univ. Agr. Ext. Spec. Bul. 111, rev.) University Farm, St. Paul, 1934.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING OCTOBER 1934
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Minnesota (Continued)

- Barley in Minnesota. L. Powers and others. (Minn. Univ., Agr. Ext. Spec. Bul. 135, rev.) University Farm, St. Paul, 1934.
Cost of production and price. G. A. Pond. (Minn. Univ., Agr. Ext. Spec. Bul. 166.) University Farm, St. Paul, 1934.

Missouri

- Food and nutrition club: Dinner. F. Carl and J. Hinote. (Mo. Agr. Col. Ext. 4-H Club Circ. 43.) Columbia, 1934.

New Jersey

- Pumpkins and squash. C. H. Nissley. (N. J. Agr. Col. Ext. Bul. 139.) New Brunswick, 1934.
Carrots. C. H. Nissley. (N. J. Agr. Col. Ext. Bul. 140.) New Brunswick, 1934.
Turnips and rutabagas. C. H. Nissley. (N. J. Agr. Col. Ext. Bul. 141.) New Brunswick, 1934.
Marmalades, conserves and jams. (N. J. Agr. Col. Ext. Bul. 145.) New Brunswick, 1934.

New York

- Growing up with books: The youngest needs his own books. (N. Y. Agr. Col. (Cornell) Ext. Bul. 299.) Ithaca, 1934.
Bibliography, p. 13-16.
Feeding babies and mothers of babies. H. Monsch. (N. Y. Agr. Col. (Cornell) Ext. Bul. 300.) Ithaca, 1934.
Cornell child study clubs; secretary's record book. M. Wylie. (N. Y. Agr. Col. (Cornell) Ext. Bul. 301.) Ithaca, 1934.
The reproduction of farm animals. S. A. Asdell. (N. Y. Agr. Col. (Cornell) Ext. Bul. 305.) Ithaca, 1934.
References, p. 26-27.
Diseases and insects of small fruits. C. R. Crosby and others. (N. Y. Agr. Col. (Cornell) Ext. Bul. 306.) Ithaca, 1934.

Ohio

- Better pastures for Ohio. D. R. Dodd and R. M. Salter. (Ohio. Agr. Col. Ext. Bul. 154.) Columbus, [1934]

Pennsylvania

- Farm tenancy and lease forms in Pennsylvania. J. E. McCord. (Penn. State Col. Ext. Circ. 151.) State College, 1934.

South Carolina

- Our national cotton policy. W. L. Clayton of Anderson, Clayton & Co., cotton brokers, New York, versus Dr. Tait Butler, Vice-president and editor of the Progressive Farmer. (Clemson Agr. Col. (S. C.) Ext. Circ. 135.) Clemson College, S. C., 1934.
Seed treatment of wheat, oats and barley for smut. W. C. Nettles. (Clemson Agr. Col. (S. C.) Ext. Inform. Card 45.) Clemson College, 1934.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING OCTOBER 1934
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Vermont

Nineteenth annual report of cooperative extension work in agriculture and home economics, state of Vermont for year 1933. J. E. Carrigan. (Vt. Agr. Col. Ext. Bul. 119.) Burlington, 1934.
Poultry diseases and their treatment. L. M. Greene. (Vt. Agr. Col. Ext. Circ. 80.) Burlington, 1934.
Curculio in apple and plum. M. B. Cummings. (Vt. Agr. Col. Ext. Circ. 81.) Burlington, 1934.

Washington

Washington home grown rations. J. S. Carver. (Wash. State Col. Agr. Ext. Poultry Pointers no. 19.) Pullman, 1934.

West Virginia

Is it energy we need? H. C. Cameron. (W. Va. Agr. Col. Ext. Good Living Ser. II, Lesson no. 2, Further Adventures in Good Living.) Morgantown, [1934]
Social justice in country life. G. Humphreys. (W. Va. Agr. Col. Ext. Good Living Ser. II, Lesson no. 3, Further Adventures in Good Living.) Morgantown, [1934]
Pioneering today and tomorrow. G. Humphreys. (W. Va. Agr. Col. Ext. Good Living Ser. II, Lesson no. 4, Further Adventures in Good Living.) Morgantown, [1934]
Food fads and fancies. H. C. Cameron. (W. Va. Agr. Col. Ext. Good Living Ser. II, Lesson no. 5, Further Adventures in Good Living.) Morgantown [1934]
Touring the mountain state. G. Humphreys. (W. Va. Agr. Col. Ext. Good Living Ser. II, Lesson no. 6, Further Adventures in Good Living.) Morgantown, [1934]
Just for fun. G. M. Scranage. (W. Va. Agr. Col. Ext. Good Living Ser. II, Lesson no. 8, Further Adventures in Good Living.) Morgantown [1934]
References, p. 5.

Wyoming

Wyoming 4-H club members' health rules and guides. E. Jennings and B. W. Marston. (Wyo. Agr. Col. Ext. Circ. 53.) Laramie, 1934.
Homemade recreation for Wyoming families. Games for 4-H clubs and how to conduct them. (Wyo. Agr. Col. Ext. Circ. 54.) Laramie, 1934.
Clothes closets and their equipment. B. Forest. (Wyo. Agr. Col. Ext. Circ. 55.) Laramie, 1934.
Safe dry cleaning for the homemaker. B. Forest. (Wyo. Agr. Col. Ext. Circ. 56.) Laramie, 1934.

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The Veterinary Journal (a monthly review of veterinary science published by Bailliere, Tindall & Cox, 7 and 8, Henrietta Street, Covent Garden, London, W. C., England) for October 1934 (vol. 90, no. 10) is a special sheep number, dealing with the breeding, feeding and diseases of sheep.

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JARED ELIOT'S ESSAYS UPON FIELD HUSBANDRY IN NEW ENGLAND

A Review by Everett E. Edwards,

Bureau of Agricultural Economics, U. S. Department of Agriculture

The new edition* of Eliot's six essays on field husbandry is more than a routine addition to the literature relating to agriculture. Collectively, these essays constitute the first important American treatise on agriculture and the most valuable single source for its history in eighteenth century America. They have long been out of print and difficult to obtain even in our large libraries, and their reprinting in this volume as the first of what promises to be an important series is an inestimable service to all who seek to understand the history of American agriculture.

The editors have wisely utilized Professor Rodney H. True's notable account of "Jared Eliot, Minister, Physician, Farmer" from *Agricultural History*, 2:185-212 (October 1928) as the introduction to the Essays. Eliot is here revealed as one of the outstanding personages of eighteenth century New England. He was "the kind of man, found rather often in earlier generations, who stood to a whole countryside as the representative there of learning." The Essays reflect an inquiring and scientific mind which even the casual modern will find stimulating as well as interesting.

Following the Essays, the editors have included the letters on agriculture received by Jared Eliot from John Bartram, Nathan Bowen, Peter Collinson, Benjamin Franklin, William Logan, James Monk, Peter Oliver, and H. W. Robinson. These show the interests of the leaders who were seeking to improve American husbandry in the pre-Revolutionary years.

The bibliography lists Jared Eliot's publications and the sketches of his career. In addition to a portrait of Eliot, the illustrations include the title-page of the 1760 edition of the Essays, the drawing of a drill plough by Peter Oliver, Jr., the title and dedication pages of Eliot's essay on iron, and a fragment of a letter by John Bartram. In addition, it may be noted that the volume is pleasing in format and binding.

The General Introduction to the series affords a succinct treatment of the significance and scope of the history of American agriculture, and also indicates the plans for future volumes. In addition to reprints of old works such as Eliot's *Essays upon Field Husbandry* (1760), the anonymous *American Husbandry* (1775), and John Spurrer's *The Practical Farmer* (1793), there are to be volumes of materials from such sources as accounts of foreigners who visited America, farm periodicals, transactions of agricultural societies, account books, local histories, tax lists, scrapbooks, market reports, memoirs, pamphlets, proceedings of state boards of agriculture, advertisements, and records of manufactures of farm machinery. Biographies of agricultural leaders, supplemented by reprints of their pertinent writings, are also projected. The editors hope that a history of American agriculture in which "the atmosphere and habits of mind which surrounded the crafts and arts of homestead, shop, stable, field, mill, and woods" are recaptured and in which "the stages of change from what it once was to what it has become" are delineated will form "the coping stone of the series." Taking the first volume as a sample, the reviewer confidently asserts that all who are interested in the history of American agriculture will heartily welcome the forthcoming volumes of the series.

**Essays upon Field Husbandry in New England, and other Papers, 1748-1762*, by Jared Eliot. Edited by Harry J. Carman and Rexford G. Tugwell, with a biographical sketch by Rodney H. True. (Columbia University Studies in the History of American Agriculture, 1). New York, Columbia University Press, 1934. 261 p. il.

STATE AGRICULTURAL EXPERIMENT STATION PUBLICATIONS
Their Arrangement, Binding and Cataloguing

Since the Library of the U. S. Department of Agriculture has received a number of requests for suggestions in regard to arranging, binding and cataloguing the State agricultural experiment station publications, the following brief statement describing its procedure may be of interest to libraries which maintain files of these publications.

In the Library of the Department, the station publications are arranged chronologically under the states, including all the publications for a year in the one volume. In other words, the volume for a year would include all the bulletins, circulars, reports and special publications issued by a station in that year. In some volumes the year covered is the fiscal year but in most cases it is the calendar year. This plan of arranging the publications has been found more satisfactory than to arrange the publications either by series or by subject. If the publications are bound simply by series, that is, all the bulletins together, all the circulars together, etc., there are complications in regard to the binding, for it sometimes is a long time before there are enough numbers to make a volume convenient for binding. If arranged by subject, it is difficult to locate them when asked for by bulletin number. To take the place of the subject arrangement on the shelves, various printed indexes and lists are used, especially the Experiment Station Record of the Department, the "List of bulletins of the agricultural experiment stations from their establishment to the end of 1920" (Department Bulletin 1199), and the biennial supplements to this bulletin, namely, Department Bulletin 1199, Supplements 1, 2 and 3, and Miscellaneous Publications 65, 128, and 181. Supplements 2 to date have author and subject indexes. The Agricultural Index, published by the H. W. Wilson Company, New York City, is also used. In addition, the experiment station publications are indexed and abstracted in various special bibliographical publications such as Biological Abstracts, Chemical Abstracts, etc. All of these various aids take the place largely of the subject arrangement of the bulletins themselves. Moreover, the classification of a library can, of course, be depended upon only in part and in a broad way to bring together the material on a subject. A very detailed classification for the arrangement of experiment station publications on the shelves would present many difficulties. Assistants with little technical library training are generally assigned to the shelving of the books and if the classification is very detailed they are likely to make many mistakes in filing. But in the catalogue, on the other hand, it is possible to make the subjects as detailed as desired, for trained assistants are ordinarily assigned to the filing of the cards in the catalogue.

It is regretted that at present printed catalogue cards are available for only a few of the stations, namely, California, Illinois, Indiana, Massachusetts, Oregon, Vermont, and Virginia. The bulletins are catalogued fully with author and title, just as books are catalogued. The cards are printed by the Library of Congress and are available by purchase both for earlier and current numbers. In the past year, with the help of a Civil Works Administration grant, the Library prepared cards for the bulletins of the following State agricultural experiment stations: New York State, Cornell, Ohio, and Wisconsin. Manuscript cards for these station bulletins have been placed in the Library catalogue, and a copy of each has been kept so that they are available for printing later if the Library of Congress should think it advisable to print them.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

of the U. S. Department of Agriculture
received during October 1934, exclusive of bibliographies* and current
issues of serials.**

Office of the Secretary

Toward a unified land policy. Address by Henry A. Wallace before the American civic association, Oct. 24, 1934, St. Louis, Mo. 10 p.

World recovery and the need for organization of world trade. Address of R. G. Tugwell before the International institute of agriculture at Rome, Oct. 24, 1934. 20 p.

Agricultural Adjustment Administration

Adjustment program averts total losses to South Dakota farmers. 1934. 5 p.

For the corn-hog farmers to decide. Radio talk of Chester C. Davis delivered over the Farm and home hour, Oct. 1, 1934. 6 p.

Land use and human welfare: a progress report. A radio talk by Mr. H. R. Tolley, broadcast Sept. 21, 1934 by NBC. 7 p.

Land use in relation to agricultural adjustment. Address by H. R. Tolley before the Extension conference at Iowa state college, Ames, Iowa, Oct. 18, 1934. 14 p.

Livestock purchases under the government drought relief program. Address by G. B. Thorne at the 29th Annual convention of the Institute of American meat packers, Chicago, Ill., Oct. 15, 1934. 9 p.

Looking forward. Address of Chester C. Davis before the Institute of American meat packers, Chicago, Ill., Oct. 16, 1934. 11 p.

Maintaining corn-hog adjustment in 1935. 1934-8 p. Material prepared for reference use by corn-hog committeemen and extension workers conducting educational meetings in connection with the referendum on adjustment plans for 1935.

Man against drought. Address of Chester C. Davis before the Grain and feed dealers national association, annual meeting at Memphis, Tenn., Oct. 15, 1934. 11 p.

State directors, executive secretaries, and members of the state allotment boards. 1934. 5 p.

*Bibliographies included in general list of bibliographies on page 391.

**For a list of the principal series issued regularly, see v.9,no.10,p.354

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
(continued)

Bureau of Agricultural Economics

- Effect of certain bale covers on the spinning behavior of cotton. 1934. 30 p.
- Effects of the drought of 1934 on feed, forage and livestock. 1934. 31 p.
- Factors affecting returns to Louisiana strawberry growers. By M. R. Cooper and J. W. Park. 1934. 64 p. (Issued by Division of farm management and costs and Division of fruits and vegetables)
- A feed-egg ration expressed in terms of eggs. By Gordon W. Sprague. 1934. 6 p. (Issued by Division of dairy and poultry products)
- Interstate migrations among the native white population as indicated by differences between state of birth and state of residence: a series of maps based on the census 1870-1930. By C. J. Galpin and T. B. Manny. 1934. 105 p. (Issued by Division of farm population and rural life)
- Midsummer poultry and egg outlook, August, 1934. 6 p.
- The national food supply, 1934-35. 1934. 11 p.
- A proposed consolidation of rules for the purchase and sale of raw cotton in American markets. Prepared in the Division of cotton marketing at the request of the Agricultural adjustment administration and the principal cotton organizations of the United States. 1934. 90 p.
- The summer dairy outlook, August, 1934. 9 p.
- The summer sheep and wool outlook. August, 1934. 8 p.

Bureau of Agricultural Engineering

- Investigations in Grand Prairie rice region, Arkansas, for Farm credit administration. 1934. 77 p.
- Latest results of engineering experiments at the soil erosion experiment stations. By C. E. Ramser, 1934. 12 p. Delivered at the Annual meeting of the American society of agricultural engineers at Detroit, Mich., June 20, 1934.

Bureau of Chemistry and Soils

- Publications of the former Bureau of Soils. 1934. 7 p.
- Recent developments in: I. Dust explosions during fire-fighting operations; and II. Farm and rural community fire prevention. Address by David J. Price at Annual convention, Pennsylvania state firemen's association, Sunbury, Pa., Oct. 2, 1934. 7 p.
- Some new aspects of interest to firemen. Address by David J. Price, at Illinois firemen's association convention, Granite City, Ill, Oct. 16, 1934. 6 p.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
(continued)

Bureau of Entomology and Plant Quarantine

- The chloropicrin separator, a device for separating insects from host materials. By Heber C. Donohoe, Dwight F. Barnes, and Charles K. Fisher. 1934. 2 p. (Issued by Division of fruit insects)
- Developments in the Japanese beetle situation during 1934. 20 p.
- The gladiolus thrips. By C. A. Weigel. 1934. 5 p. (E-300) (Issued by Division of truck crop and garden insects)
- Proceedings of grasshopper control conference, August 31, 1934. (Denver, Colorado) 13 p.
- Screw-worm control in the southeastern states. By F. C. Bishopp. 1934. 4 p. (E-323) (Issued by Division of insects affecting man and animals)
- Summary of chinch bug control campaign, 1934. By P. N. Annand. 7 p. Prepared for Chinch bug conference at Hamilton, Ill., Sept. 5, 1934. (Issued by Division of cereal and forage insects)
- Summary of cooperative grasshopper control campaign of 1934. By P. N. Annand. 16 p. Prepared for the Grasshopper conference held Aug. 31, 1934, at Denver, Colo. (Issued by Division of cereal and forage insects)

Forest Service

- Forest statistics for western Oregon counties. 1934. 7 p. (Issued by Pacific northwest forest experiment station, Portland, Oregon)

Bureau of Home Economics

- Classification of fruits and vegetables according to their carbohydrate content. 1934. 3 p. (Issued by Food composition section)
- Cooking the potato. By Elizabeth Fuller Whiteman. 1934. 6 p. (Issued by Foods and nutrition division)

Bureau of Plant Industry

- Care of evergreens. By Furman L. Mulford. 1934. 3 p. (Issued by Division of fruits and vegetable crops and diseases)

Weather Bureau

- Official U.S. Weather Bureau record of highest and lowest temperatures ever observed in San Francisco during period January 1875 to June 1934, inclusive. 8 p.

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THESES

Following is a partial list of an accumulation of theses which it was impossible to catalogue when received.

Agricultural history

MARX, FERDINAND. Die entwicklung der kulturtechnik in der Rhineprovinz. Elberfeld [1925]. Inaug.-diss. Köln.

Agriculture

FREY, RUDOLF. Die alpwirtschaft des bezirkos Füssen, wege zu ihrer hebung. München, 1933. Abhandlung. Tech.hochschule, München.

GERRIETS-PURKSWARF, JOHANNES. Die landwirtschaftlichen verhältnisse der oldenburgischen Wesermarsch in den Ämtern Brake, Butjadingen und Varel. Jena, 1913. Inaug.-diss. Jena.

KRYZYMOWSKI, RICHARD. Die landwirtschaft des oberelsässischen kreises Altkirch. Berlin, Parey, 1905. Inaug.-diss. Jena.

Asphalt

FREY, MAX. Die asphaltlagerstätten im schweizerischen Juragebirge mit besonderer berücksichtigung des Val de Travers. Basel, 1924. Inaug.-diss. Basel.

Bacteriology

BIERNATH, OTTO. Agrikulturchemische untersuchungen über die veränderungen einiger nährboden durch die entwicklung landwirtschaftlich wichtiger bakterien. Rostock, 1897. Inaug.-diss. Rostock.

BROCK, KURT. Bakteriologische und histologische untersuchungen zur tuberkelbazillamie. [Hamburg, 1932?] Inaug.-diss. Hamburg. (Veröffentlicht in "Brauers Beiträge zur klinik der tuberkulose", bd. 81)

FREDRICH, EMIL. Vergleichende untersuchungen zum nachweis von tuberkelbazillen durch tierversuche und mit dem nährboden nach Hohn. Stargard i. Pom., 1930. Inaug.-diss. Greifswald. (Veröffentlicht, in gekürzter form, in "Beiträge zur klinik der tuberkulose", bd. 76, hft. 4/5)

GRÄFENHAN, PAUL. Bacillus disciformis. Ein beitrag zur kenntnis der wasserbakterien. Halle a.S., 1891. Inaug.-diss. Halle-Wittenberg.

HAAL, ARNOLD. Diagnostische züchtungsversuche zur feststellung der brauchbarkeit verschiedener farbnährboden zur kultur der Abortus-Bang-bakterien aus der milch. Goch, 1933. Inaug.-diss. Leipzig.

KERN, OTON. Über die ausscheidung von abortus-bazillen durch harn und galle beim rinde. Leipzig, 1933. Inaug.-diss. Leipzig.

PETTER, H. F. M. Over roode en andere bacterien van gezouten visch. Santpoort, 1932. Proefschrift. Utrecht.

PIENING, CARL. Der "Bacillus sporogenes oedematis Sordelli" Berlin, 1931. Inaug.-diss. Tierärztl.hochschule, Hannover.

PLATE, GUSTAV. Der beschleunigte, direkte nachweis der Brucella abortus in der milch mit hilfe des meerschweinchenversuches. Hannover, 1933. Inaug.-diss. Tierärztl. hochschule, Hannover.

Theses

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- RUPP, OSKAR. Vergleichende untersuchungen "über die brauchbarkeit verschiedener neuerer nährboden für die tuberkelbakterienkultur. Giessen, 1933. Diss. Giessen.
- SACHS, ERHARD. Vergleichende bakteriologische untersuchungen "über milchflaschenreinigung nach dem bürstverfahren. Kempten, 1931. Abhandlung. Tech.hochschule, München.

Botany

- GEALSA, M. I. Die beziehungen zwischen dem vorkommen von asponin und der systematischen gliederung einiger gattungen der ranunculaceen. Berlin, 1934. Inaug.-diss. Berlin.
- HETTINGER, DOMINICA, sister. Penicillium zukalii Biourge, a study of its morphology and physiology. Washington, 1934. (Contributions from the Biological laboratory of the Catholic university of America, no. 15) Thesis (PH.D.) Catholic university of America, 1934.
- KUMPOW, ALEXANDER. Beitrag zur kenntnis der atmungsvorgänge an reinkulturen höherer pflanzen. Würzburg, 1934. Inaug.-diss. Landw.hochschule, Berlin.
- MAHONEY, C. H. An ecological study of the genus Rubus with reference to drought resistance. East Lansing, Mich., 1931. Thesis (PH.D.) Michigan state college of agriculture and applied science, 1931. Lithoprinted.
- POTTER, J. S. The chromosomes of selected Malus species and crab forms. Urbana, 1933. Abstract of thesis (PH.D.) University of Illinois, 1933.

Chemistry

- BAYER, JAKOB. Untersuchungen "über metallketylo. Giessen, 1934. Diss. Giessen.
- BEST, REINHARD. Beitrag zur kalkstickstoffumsetzung. Giessen, 1933. Diss. Giessen.
- BLANCHARD, W. M. The chlorides of parabromorthosulphobenzoic acid, and some of their derivatives. Easton, Pa., 1900. Diss. (PH.D.) Johns Hopkins university, 1900.
- BLUMENGER, J. S. P. Studies in de katalytische ontleding van diazoverbindingen. Delft, 1929. Proefschrift. Tech.hoogeschool, Delft.
- BREUER, FERDINAND. Die physiologische bedeutung der jodsalze für den tierischen organismus. Giessen, 1928. Diss. Giessen.
- CHAMBERS, A. D. An investigation of the composition of certain oxides of manganese. Easton, Pa., 1896. Diss. Johns Hopkins university, 1896.
- DASHIELL, F. J. The reaction of para-diazo-ortho-toluene-sulphonic acid with ethyl alcohol under various conditions of dilution and pressure. Baltimore, 1891. Thesis (PH.D.) Johns Hopkins university, 1891.
- DOWNES, H. C. Indicator studies of acids and bases in benzene. New York, 1932. Diss. (PH.D.) Columbia university, 1932.
- EDMONDS, S. M. Oxidation potential indicators and their application to the volumetric determination of vanadium and iron in the presence of one another. New York city, 1933. Thesis (PH.D.) Columbia university, 1933.
- FESSENDEN, R. W. The chemical kinetics of high valence type electrolytes in dilute aqueous solution. New York city, 1931. Thesis (PH.D.) Columbia university, 1931.

Theses

Chemistry
(Continued)

- FEUERRIEGEL, GERHARD. Über die darstellung von oxazolen aus α -aminosäuren. Greifswald, 1933. Inaug.-diss. Greifswald.
- FORBAT, ELEMER. Untersuchungen über bixin den farbstoff von Bixa orellana L. Pecs, 1930. Promotionsarbeit. Tech.hochschule, Zürich.
- FREY, WALTER. Zur kenntnis der celluloseformiate. Karlsruhe, 1928. Diss. Tech.hochschule "Fridericiana", Karlsruhe.
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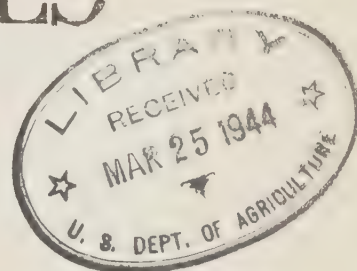
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The time limit for entering bibliographies in competition for the sixth Oberly Memorial Prize has been extended to March 1, 1935. Those desiring to enter bibliographies in competition for the prize should submit them to Mr. Gilbert H. Doane, Librarian, The University of Nebraska, Lincoln, who is now Chairman of the Eunice Rockwood Oberly Memorial Fund Committee.

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MISCELLANY

The December 1934 issue of The Headlight on Books at Penn State contains the following notice in regard to changes in the School of Agriculture Library: "Miss Kathryne M. Stanford has resigned after seventeen years of memorable service as Librarian of the School of Agriculture Library. Miss Stanford was married Saturday evening, November 10th, to Mr. W. W. Wade in Richmond, Virginia. Mr. and Mrs. Wade expect to spend the winter in Florida. Miss Anne Elizabeth Beal, a graduate of Cornell University College of Agriculture and the Columbia University School of Library Service succeeds Miss Stanford on December first. Miss Beal has served as Supervisor of Department Libraries in Washington Square College, New York University, and as Cataloguer on the staff of Cornell University Library."

A revised edition of the "List of Subject Headings Used in the Catalog of the Forest Service Library" has recently been issued, in mimeographed form, by the Forest Service Library of the U. S. Department of Agriculture. At the end of the list there is included the "General Classification of Forestry Literature" compiled in 1923 by C. F. Korstian, A. B. Recknagel, and John M. Briscoe, which has been modified and expanded by the Forest Service. The list comprises 113 pages and the classification 19 pages.

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*Prepared in the Office of Experiment Stations Library.

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- Alarms: Burglar, power-off, temperature, and fire. I. P. Blauser. (Ohio Agr. Col. Ext. Poultry Pointers no. 17.) Columbus, 1934.
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Wisconsin

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Better sheep management on Wisconsin farms. J. J. Lacey. (Wis. Agr. Col. Ext.
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(Wis. Agr. Col. Ext. Circ. 271.) Madison, 1934.
Carrots in more ways than one. A. L. Marlott. (Wis. Agr. Col. Ext. Spec. Circ.
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Pickles, preserves, relishes. Department of Home Economics and R. Henderson.
(Wis. Agr. Col. Ext. Spec. Circ. [unnumbered]) Madison, 1934.
Langlade county, a survey of its natural resources and their utilization.
C. L. Hill and others. (Wis. Agr. Col. Ext. Spec. Circ. [unnumbered])
Madison, 1934.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

of the U. S. Department of Agriculture
received during November 1934, exclusive of bibliographies* and current
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Office of the Secretary

The national agricultural program in relation to the northeast. Address of Henry A. Wallace at an agricultural conference of northeastern states, New York City, Nov. 8, 1934. 13 p.

The AAA: reduction; adjustment to current demand; adjustment to a more abundant living. Address of Mordecai Ezekiel before National association of marketing officials, New York City, Nov. 15, 1934. 16 p.

The consumer and the new deal. By Gardiner C. Means. 1934. 16 p.

Decentralization of industry. Address of M. L. Wilson at the convention of the American civic association at St. Louis, Mo., Oct. 23, 1934. 15 p.

Agricultural adjustment; some problems ahead. Address by M. L. Wilson before the National fertilizer association at Atlanta, Ga., November 13, 1934. 20 p.

Land policies and agricultural welfare. Address by M. L. Wilson before the National grange, Hartford, Conn., Nov. 15, 1934. 13 p.

The significance of agricultural adjustment in Pennsylvania. Address by M. L. Wilson at a meeting of Central Pennsylvania farmers, Lancaster, Pa., held under the auspices of the Tobacco growers association of Lancaster county, Nov. 2, 1934.

Agricultural Adjustment Administration

AAA program, rising prices, improve returns of Missouri farm production. 1934. 5 p.

The adjustment program to follow 1935. Address by H. R. Tolley before the Extension section of the meeting of the Association of land grant colleges and universities, Washington, D. C., Nov. 19, 1934. 11 p.

The agricultural adjustment act in relation to the food industry. Remarks by Chester C. Davis before a meeting of the American grocery manufacturers' association in New York City, Nov. 22, 1934. 13 p.

Agricultural planning in a democracy. Address by H. R. Tolley before general session, American association of land-grant colleges and universities, Willard hotel, Washington, D. C., Nov. 30, 1934. 9 p.

Democracy and our agricultural policy. Speech before National grange convention, Hartford, Conn., Nov. 16, 1934. 11 p.

*Bibliographies included in general list of bibliographies on page 428

**For a list of the principal series issued regularly, see v. 9, no. 10, p. 354

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Agricultural Adjustment Administration (continued)

The farmer and the nation. Radio talk by Chester C. Davis broadcast by NBC in the National radio forum series, Oct. 31, 1934. 12 p.

Kansas crops yield larger returns in 1933-34. 1934. 4 p.

License for milk, Atlanta, Georgia, sales area. Nov. 15, 1934. 19 p. License series - License no. 93. Docket no. L-17.

Relation of farm purchasing power, general recovery, and northeastern agriculture. 1934. 15 p.

The tobacco program and the Kerr-Smith act. Address by J. B. Hutson before the 48th annual convention of the Association of land-grant colleges and universities, Nov. 19, 1934. 5 p.

Working toward stability for the dairy industry. Address of A. H. Lauterbach before National cooperative milk producers federation, Syracuse, New York, Nov. 13, 1934. 11 p.

Bureau of Agricultural Economics

Directory of teachers giving courses in rural sociology and rural life. 1934. 14 p. (Issued by the Division of farm population and rural life)

An experimental analysis of factors affecting the collectibility of cotton-production loans. By William H. Rowe. A preliminary report. 1934. 43 p.

Farm value, gross income, and cash income from farm production, 1931-1932-1933. State summaries. 1934. (Issued by Division of crop and livestock estimates)

List of market news reports issued by the Division of dairy and poultry products of the Bureau of agricultural economics. 1934. 7 p.

Market classes and grades of stocker and feeder steers. 1934. 14 p. (Issued by Livestock, meats and wool division)

Prices paid by farmers for food, January 24-27, 1934. 1934. 21 p. (Issued by Division of crop and livestock estimates)

Third of a series of reports based on a three day price enumeration made by Federal Civil works administration employees on a country-wide scale from January 24 to 27, 1934.

Summary report, quality of the 1934 crops: wheat, barley, oats, and rye. Based on inspected receipts at representative markets, first quarter 1934 crop year. 1934. 6 p. (Issued by grain division)

Tentative United States standards for lespedeza hay. 1934. 4 p.

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Bureau of Agricultural Engineering

Memorandum to E. C. W. technicians on the design and control of broad, shallow terrace outlet ditches, Emergency conservation erosion camps. By W. D. Ellison. 1934. 5 p.

Terracing in a land use program. By S. P. Lyle. 1934. 6 p.

Bureau of Animal Industry

Batteries for chickens. 1934. 4 p. (A.H.D. no. 10)

Progress in tick eradication, July 1, 1906 to Dec. 1, 1934. 1 p.

Statement of results, tick eradication, July 1, 1906 to December 1, 1934.

Bureau of Biological Survey

Abstract of fur laws, 1934-35. 1934. 31 p.

Bureau of Chemistry and Soils

The selenium problem. By Henry G. Knight. Address before the Association of official agricultural chemists, Oct. 30, 1934, Washington, D. C. 1934. 5 p.

Bureau of Dairy Industry

Brief directions for making, paraffining, and handling 2-1/2 pound loaves of Cheddar cheese for the Federal surplus relief corporation. By H. L. Wilson. 1934. 2 p.

Bureau of Entomology and Plant Quarantine

Apparatus used for collecting insects in the field. By J. E. Dudley, jr. 1934. 2 p. (ET-24) (Issued by Division of truck crop and garden insects)

Bureau of entomology and plant quarantine directory. 1934. 80 p.

The fumigation of tobacco warehouses. By W. D. Reed, E. M. Livingstone, and A. W. Morrill. 1934. 12 p. (Issued by Division of truck crop and garden insects)

Stem rust and the common barberry. By W. L. Popham. 1934. 11 p. (Issued by Division of plant disease control)

Extension Service

Can extension continue an educational program and administer enforcement and regulatory measures? By I. O. Schaub. 1934. 5 p. Presented at the 48th annual convention of the Association of land-grant colleges and universities, Washington, D. C., Nov. 20, 1934.

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Extension Service

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The influence of the national agricultural recovery program on extension.
By W. H. Brokaw. 1934. 6 p. Presented at the 48th annual convention
of the Association of land-grant colleges and universities, Washington,
D. C., Nov. 20, 1934.

The outlook for rural youth. By O. E. Baker. 1934. 25 p. (Extension service
circular 203)

A study of agricultural, home economics, and 4-H club articles in representative
daily and weekly newspapers in 1913 and 1930. By J. M. Stedman. 1934.
30 p. (Extension service circular 202)

Office of Experiment Stations

Research in home economics at the land-grant institutions, 1934-35. Compiled
by Sybil L. Smith. 1934. 34 p.

Forest Service

Facts bearing upon instability of forest land ownership in western Oregon.
By Sinclair A. Wilson. 1934. (Issued by Pacific northwest forest experiment
station)

List of subject headings used in the catalog of the Forest Service library.
Rev. ed. Also, General classification of forestry literature, as com-
piled by C. F. Korstian, A. B. Recknagel, John M. Briscoe, 1923. Modified
and expanded by the Forest Service. Nov. 1, 1934.

Bureau of Home Economics

Community sewing in relief programs. 1934. 18 p.
Home dyeing with commercial dyes. 1934. 6 p.
How to use dried skim milk. 2 p.
Research projects of the Bureau of Home Economics. 6 p.
Winter playsuit. 2 p.

Bureau of Plant Industry

Descriptive list of plants available at United States plant introduction
garden, Coconut Grove, Florida. Season 1934/5. 5 p. (Issued by Division of
plant exploration and introduction)

Snap beans for market garden and canning. By B. L. Wade. 1934. 6 p. (Issued by
Division of fruit and vegetable crops and diseases)

Summary of fifty experiment station replies to questionnaire on alfalfa
improvement projects and varieties. By H. M. Tysdal. 1934. 8 p. (Issued
by Division of forage crops and diseases)

TWO NEW CLASSIFICATION SCHEMES

Reviewed by Wm. E. Jordan, U. S. Department of Agriculture Library

During the past month the Library of the U. S. Department of Agriculture has received two new library classification schemes, one on the subject of forestry (1) and the other on agriculture (2).

The classification scheme of forestry brings together all phases of knowledge in any way relating to forestry, which in the Dewey Decimal classification are scattered among economic, botanical, zoological, chemical technological, and the other larger divisions. These are then treated in their logical relation to forestry as a main class. The D. C. designation of 634.9 is accepted, the capital letter F being added, Forestry then being designated as 634.9 F, though the inadequacy of assigning a subject like forestry an equal value with such minor divisions as drupaceous fruits (634.2), citrus fruits (634.3), etc., is pointed out.

The major divisions of the two classifications compare as follows:

	Dewey (13th ed.)	Signatur 634.9 F
634.90	Forestry (general)	.01-.09 General
.91	(not used)	1 Natural basis of forestry
.92	Economics	2 Silviculture
.93	Engineering	3 Utilization. Technology
.94	Forest botany	4. Protection
.95	Silviculture	5 Growth. Yield
.96	Injury. Protection	6 Organization. Measurement
.97	Taxonomic forestry	7 Forest economics
.98	Forest product utilization	8 Administration
.99	Other uses	9 Forest policy

The major changes in the new scheme are: (1) The use of division 1, Natural basis of forestry, in which are brought together meteorology, climatology, soil study (from the physical, chemical, biological, geological, ecological, and other angles), forest botany including the taxonomic classification of plants, forest zoology which like forest botany goes into minute subdivision by orders, families, etc., Coleoptera, for instance, receiving the formidable notation 634.9F 13.21.85.6. This subclass 1 then absorbs the D. C. class 634.94; (2) the combining of D. C. class .98 and .99 in the new designation 3 which in addition brings together subjects the D. C. puts in 674 (Lumber) and 660 (Chemical technology) and other classes; (3) D. C. class 634.92 is split up to form in part sub-classes 5, 6, 7, 8, and 9 of the new.

On the whole, it is commendable that D. C. class 634.92 (forest economics) be split up as the new divisions are those generally thought of as larger divisions of forestry. This splitting up results in a shorter classification number than that used in the D. C. classification. However, taking botanical

(1) Forstliche bibliographie des Internationale verbandes forstlicher forschungsanstalten, nach den grundsätzen der Melvil Dewey'schen dezimal-klassifikation, entworfen durch dr. Phillipp Flury... (In Schweizerische anstalt für das forstliche versuchswesen. Mitteilungen...Annales de l'Institut fédéral de recherches forestières. Zürich, 1934. Band 18, heft 2, p. [417]-547)

(2) International Institute of Agriculture. Classification scheme of agricultural science. By Dr. Sigmund von Frauendorfer. Rome, 1934. 171 p.

TWO NEW CLASSIFICATION SCHEMES (continued)

and zoological subjects out of class 580 and 590 and putting them in relation to forestry in 634.9F 12 and 634.9F 13 respectively makes the new numbers inordinately long and awkward to use. Coleoptera, for instance, becomes 634.9F 13.21.85.6 instead of 595.76 in the D. C.

In a general library there may be considerable confusion and difficulty in deciding whether a book would be better classed among insects proper in the 590's or in the "insects in relation to their host plant" in the 634.9F 13's. In a library devoted entirely to forest subjects would the gathering together of all sciences contributory to forestry in the new 634.9F 1 be of advantage? It seems that if left in their old classes they would be capable of as minute classification and could be as easily classified and located. However, the authors of the present sub-division have thought it advisable to gather all these sciences together and have given 634.9F 1 as the optional location for them.

The classification is in German, is provided with an index, and a geographical index. It is the work of a committee consisting of Dr. Flury, Switzerland, Secretary; and Professors Troup, of England, Jedlinski, of Poland, Perrin of France, and Weber, of Germany.

The second classification, by Dr. Sigmund von Frauendorfer, Librarian of the International Institute of Agriculture, Rome, embraces the entire field of agriculture in addition to forestry. Examination of this scheme discloses many admirable features contributing to ease and speed in its use. The first thing to strike the eye is the page arrangement in three parallel columns of synonymous terms in French - English - German. Each page is headed with the symbol for the main group dealt with and a caption explaining that main symbol. The notations for the subdivisions are all on the left hand side of the page. Indentation and spacing serve to separate larger groupings. A separate index for the French, English, and German terms employed is invaluable in classification work, as the classifier, if uncertain as to the exact meaning of a foreign term, need only find its place in the scheme of the index and refer to the classification proper for the synonymous term in English, or the language most familiar to the classifier.

The classification consists of fifteen main groups given the symbols A to H, K, M, N, P to S in Latin capitals. Subdivision inside the main groups is indicated by use of Arabic numerical symbols which are expansible on the decimal principle. The letters I, J, L and O were purposely omitted to avoid confusion which their similarity to other letters and numbers might produce.

An added list of geographic subdivisions using a numerical notation allows for bringing out country interest of a subject. A list of analytical subdivisions in the same way allows for bringing out secondary subject aspects of the classification chosen. This analytical list uses the notation of the main classes as a basis with the exception that the symbol used is in lower case type. Thus if G1 is Cultivation of cereals in general, and E26 is Agricultural credit, G1 e26 would imply Credits in cereal production.

One thing that the author stresses is the need of the classifier to determine where works on certain subjects that have different aspects are to be put when the classification scheme provides two places for them. The index for instance brings out "Flax" under both (1) Textile plants and (2) Oil plants, and also under Textile and clothing industries. It may have been clearer to put the plant in its relation to its cultivation and historical

Two New Classification Schemes
(continued)

or main use in one classification and in its relation to its secondary product or by-product in another. If in this case the historical or main use of flax is considered its use for fiber, then in its relation to its cultivation "Flax" would appear under G612 analyzed thus:

- G : Special field crops
- 6 : Textile and fiber plants
- 61 : Soft fiber plants
- 612: Flax

This would allow "Flax" used for oil (linseed) to be brought out in R514 analyzed thus:

- R : Technology of agricultural products
- 5 : Oils and fats
- 51 : Plant products
- 514: Drying oils

This has the advantage of placing a by-product, "oil cakes", close by in R518. Bringing "Flax" thus out in the classification "fiber plants" which has to do with its historical and generally thought of main use prevents placing works on flax as a field crop in two divisions, namely, (1) Textile and fiber plants, and (2) Oil producing plants. However, it is to be kept in mind that country interest in flax varies as it is chiefly grown to yield oil seeds in Argentina, India, the United States, Canada, and Russia. Where thus grown it would be just as logical to use the "Oil producing plants" group for the classification of works on the cultivation of flax and relegate the "Textile and fiber plant" interest to secondary place. But as the author puts it in his preface, "It is evident that a classification scheme which is in all regards perfect, completely logical and capable of serving all purposes, can not exist, especially when the task, as in this case, is to construct a system of international standing. The opinions on the best subject division vary not only from one nation to the other, but also between the various branches of science, and even two workers in the same subject may have different opinions concerning the systematology of their special subject. In the construction of the present classification scheme, therefore, compromise has been unavoidable."

The fifteen main groups are as follows:

- A Agriculture in general
- B History and geography of agriculture
- C Agricultural education
- D Agricultural administration and legislation
- E Social and economic aspects of agriculture
- F Plant production in general
- G Special field crops
- H Horticulture
- K Forestry
- M Animal husbandry in general
- N Particular domestic animals
- P Rural buildings and land development
- Q Agricultural machinery
- R Technology of agricultural products
- S "Game, hunting and fishing"

TWO NEW CLASSIFICATION SCHEMES
(continued)

In A (Agriculture in general) are put works of a general nature - bibliographies, library catalogs, reference books, periodicals, publications of institutions and societies, works in sciences that are fundamental and auxiliary to agriculture as mathematics, physics, economic sciences, political sciences, chemistry, geology, meteorology, biological sciences. In this connection the author of the scheme has this to say: "A special difficulty has been encountered in dealing with the fundamental and auxiliary sciences which are more or less closely related to agricultural science. In general, the attempt has been made to place these subjects where, from an agricultural point of view, they would logically be expected - for example, Botany under Plant Production in general, Veterinary Science under Animal Husbandry. In other cases this procedure proved impossible as the subjects in question were related to more than one branch of agriculture. Chemistry, Bacteriology, Zoology, and also Economic Science, for instance, were for this reason placed in the main-group A (Agriculture in general)."

The other main-groups follow in logical order. Similar groups appear together as F, G, H, K, all dealing with plants, and M, N, dealing with animals.

The length of the notation seldom exceeds five symbols, i.e., the letter for the main-group and four numbers for the subdivision inside the group. The most important and most frequently occurring subjects are confined to two or three symbols.

When geographic or analytical subdivision is employed and the entire notation is used in the call number of the number, difficulty in exact shelving and location on the shelf may arise, due to the unwieldy character of a notation combining capitals, lower case letters, numbers, and numbers in curves (1), as for instance, in the examples given:

G11 e68 (121) : Standardization of wheat in Germany

G11 e68 (44) : Standardization of wheat in the U. S.

The following digression may serve to show how this may be eliminated. In the Engineering Societies Library in New York City, a similar problem is dealt with in their classified subject card catalog. Here for the close classification of articles in serials and for bringing out the various important subject interests of a volume, a longer number is used while at the same time the catalog gives a shorter number as the call number of the volume. The longer number is then used for arrangement of the cards in the catalog, the catalog being thus in effect an enlarged shelf-list. The two numbers would appear thus on the catalog card: G11 P45 (Cutter no.) G11 e68 (44)

The left hand number is the call number; the right hand the subject catalog number used for correct arrangement of the cards to show their relations. A separate alphabetical index is provided to show the user which numbers to look under for the subject he wants, and the necessary "Instruction cards" are provided in each tray.

The classification of the International Institute of Agriculture may thus be used to advantage in the formation of a minutely classed subject catalog in which individual articles in serials may be assigned a specific class symbol to be used for arrangement of cards in the catalog and yet retain for call number purposes the notation of a long established scheme such as that now in

TWO NEW CLASSIFICATION SCHEMES
(continued)

use in the United States Department of Agriculture Library, or in other libraries using the Library of Congress or the Dewey Decimal classifications.

Other uses suggested by the author of the scheme include its use for reference files, archiving, private bibliographies and catalogs of different kinds.

This classification scheme is the result of more than seven years thought and adaptation on the part of its author, Sigmund von Frauendorfer, the Librarian of the International Institute of Agriculture in Rome, Italy. In 1927 he presented a preliminary form "Classification Problems in Agricultural Libraries" as a thesis for the degree of MA in Library Science in the Graduate School of the University of Illinois. In 1930 a tri-lingual draft was sent for comments and suggestions, to specialists in various countries. The classification as it now appears has received the benefit of these suggestions and of Herr von Frauendorfer's expert study. It can be considered as a most notable contribution to the literature of classification.

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